

=> d his ful

(FILE 'HOME' ENTERED AT 08:54:18 ON 20 AUG 2005)

FILE 'REGISTRY' ENTERED AT 08:54:23 ON 20 AUG 2005

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L2          STR
L3      120699 SEA SSS FUL L2
L4          STR
L5      51757 SEA SUB=L3 SSS FUL L4
L9          STR
L10         STR L9
L11         STR
L12         STR L9
L13         STR L12
L17         STR L15
L20      1437 SEA SSS FUL L9 OR L10 OR L11 OR L12 OR L13
L21         STR L17
L22      210 SEA SSS FUL L17
L23         STR L15
L24      9 SEA SUB=L22 SSS FUL L23
    
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FILE 'HCAPLUS' ENTERED AT 09:22:38 ON 20 AUG 2005

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L25      484 SEA ABB=ON PLU=ON L24
L26      15691 SEA ABB=ON PLU=ON L5
L27      8894 SEA ABB=ON PLU=ON L20
L28      2 SEA ABB=ON PLU=ON L25 AND L26 AND L27
          D STAT QUE
          D IBIB ABS HITSTR L28 1-2
L32      89 SEA ABB=ON PLU=ON L26 AND L27
L36      27 SEA ABB=ON PLU=ON L24/P
L37      14 SEA ABB=ON PLU=ON L25 AND L26
L38      12 SEA ABB=ON PLU=ON L25 AND L27
L39      70 SEA ABB=ON PLU=ON L32 AND PD=<OCTOBER 9, 2002
L40      39 SEA ABB=ON PLU=ON L36 OR L37 OR L38
L41      14 SEA ABB=ON PLU=ON L40 AND PD=<OCTOBER 9, 2002
          D IBIB ABS HITSTR L41 1-14
L42      70 SEA ABB=ON PLU=ON L39 NOT (L41 OR L28)
L45      3967 SEA ABB=ON PLU=ON L26(L) REACTANT/RL
L46      6032 SEA ABB=ON PLU=ON L27(L) REACTANT/RL
L47      32 SEA ABB=ON PLU=ON (L45 AND L46) AND L42
          D STAT QUE
          D IBIB ABS HITSTR L47 1-32
    
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FILE HOME

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 19 AUG 2005 HIGHEST RN 861198-35-8

DICTIONARY FILE UPDATES: 19 AUG 2005 HIGHEST RN 861198-35-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

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*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

FILE HCAPLUS

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FILE COVERS 1907 - 20 Aug 2005 VOL 143 ISS 9
FILE LAST UPDATED: 19 Aug 2005 (20050819/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=>

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FILE 'HCAPLUS' ENTERED AT 09:22:38 ON 20 AUG 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

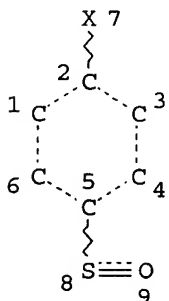
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FILE COVERS 1907 - 20 Aug 2005 VOL 143 ISS 9
FILE LAST UPDATED: 19 Aug 2005 (20050819/ED)
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New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

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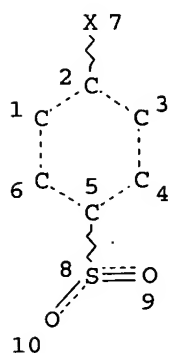
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DEFAULT ECLEVEL IS LIMITED
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NUMBER OF NODES IS 9
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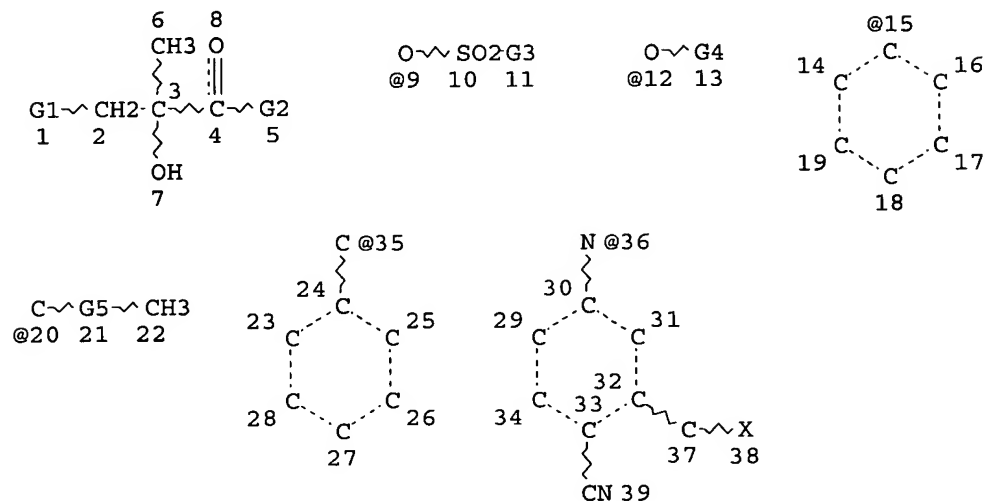
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L4 STR
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NODE ATTRIBUTES:
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GRAPH ATTRIBUTES:
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 NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE
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 L9 STR

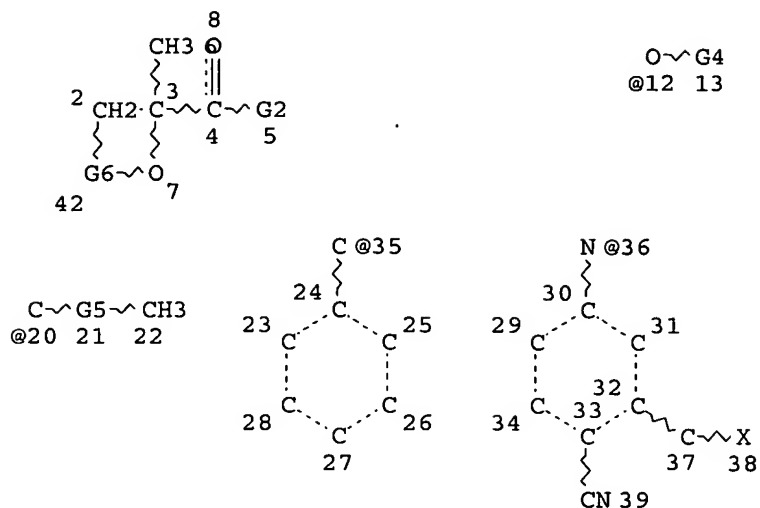


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 VAR G3=OH/ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/15
 VAR G4=ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/20/CB/35/36
 REP G5=(3-4) C
 NODE ATTRIBUTES:
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STEREO ATTRIBUTES: NONE

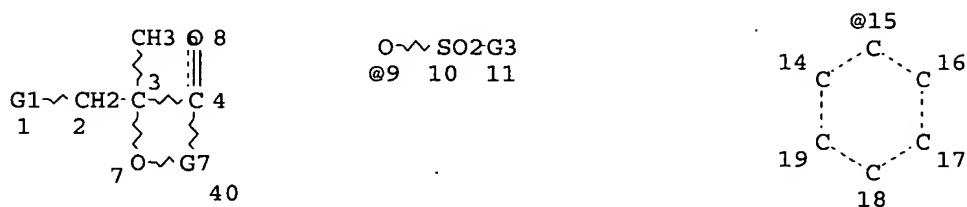
L10 STR



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 REP G6=(0-3) A
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 DEFAULT ECLEVEL IS LIMITED

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 NUMBER OF NODES IS 30

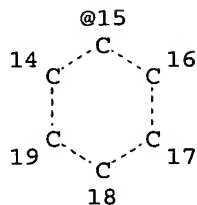
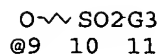
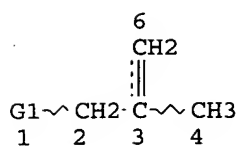
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GRAPH ATTRIBUTES:
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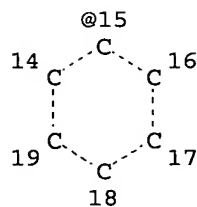
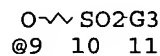
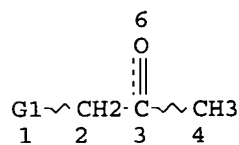
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 L12 STR



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 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
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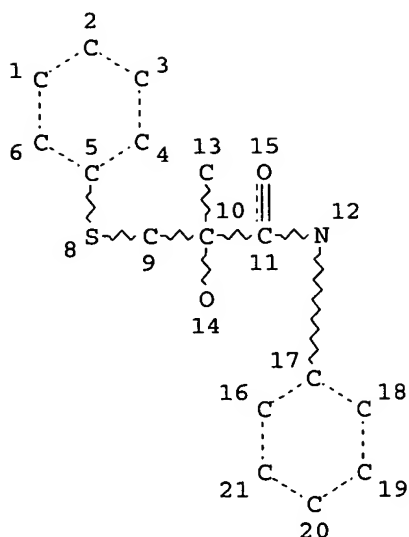
STEREO ATTRIBUTES: NONE
 L13 STR



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GRAPH ATTRIBUTES:
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 NUMBER OF NODES IS 14

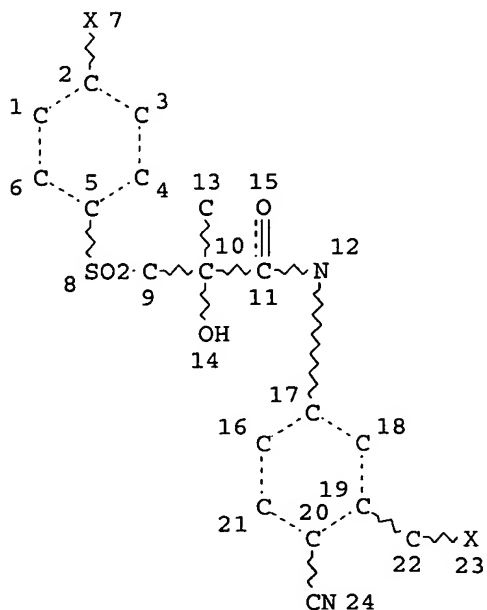
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 DEFAULT ECLEVEL IS LIMITED

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 NUMBER OF NODES IS 20

STEREO ATTRIBUTES: NONE
 L20 1437 SEA FILE=REGISTRY SSS FUL L9 OR L10 OR L11 OR L12 OR L13
 L22 210 SEA FILE=REGISTRY SSS FUL L17
 L23 STR



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 DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 24

STEREO ATTRIBUTES: NONE

L24 9 SEA FILE=REGISTRY SUB=L22 SSS FUL L23
L25 484 SEA FILE=HCAPLUS ABB=ON PLU=ON L24
L26 15691 SEA FILE=HCAPLUS ABB=ON PLU=ON L5
L27 8894 SEA FILE=HCAPLUS ABB=ON PLU=ON L20
L28 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L25 AND L26 AND L27

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=>

=> d ibib abs hitstr l28 1-2

L28 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:293441 HCAPLUS

DOCUMENT NUMBER: 140:303414

TITLE: Process for making bicalutamide and intermediates thereof

INVENTOR(S): Thijs, Lambertus; Keltjens, Rolf; Ettema, Gerrit J. B.
PATENT ASSIGNEE(S): Neth.

SOURCE: U.S. Pat. Appl. Publ., 23 pp., Cont.-in-part of U.S.
Ser. No. 261,492.

CODEN: USXXCO

DOCUMENT TYPE: Patent

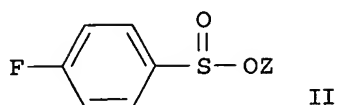
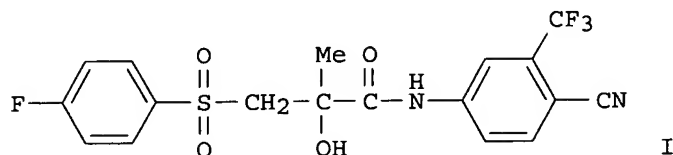
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

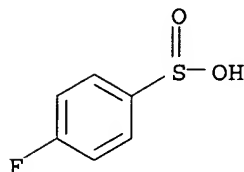
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004068135	A1	20040408	US 2003-682530	20031010
US 2003073742	A1	20030417	US 2002-261492	20021002
US 6818766	B2	20041116		
PRIORITY APPLN. INFO.:			US 2002-261492	A2 20021002
OTHER SOURCE(S):	MARPAT	140:303414		

GI

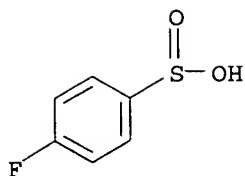


- AB Bicalutamide (I) and/or its intermediates are made by reaction of p-fluorobenzenesulfinic acid salt (II; Z = a cation) with 2-hydroxyisobutyric acid derivs. of formula YCH₂C(Me)(OX)COA (A = OR; wherein R = H, C1-6 alkyl, C3-6 cycloalkyl, Ph, benzyl, 4-cyano-3-trifluoromethyl-anilino; Y = leaving group and X = H; or X and Y are joined together to form a 3- to 6-membered heterocyclic ring, in particular oxirane ring; or X and A are joined together to form a 5- to 10-membered fused or unfused heterocyclic ring with the proviso that if a ring nitrogen is present, it may be substituted by a 3-trifluoromethyl-4-cyanophenyl group), YCH₂CMe:CH₂ (Y = same as above), or YCH₂CMe (Y = same as above). Thus, 0.500 g N-[4-cyano-3-(trifluoromethyl)phenyl]-2-methyl-2-oxiranecarboxamide (III) was dissolved in a mixture of 40 mL CHCl₃ and 40 mL H₂O, successively treated with 371 mg sodium p-fluorobenzenesulfinate and 298 mg tetrabutylammonium bromide, and refluxed for 96 h to give, after workup and silica gel chromatog., 380 mg I (48% yield). Similarly, chiral (R)-I was obtained using chiral epoxide (S)-III in 43% yield.
- IT 676559-19-6, Ammonium p-fluorobenzenesulfinate
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (claimed compound; preparation of bicalutamide by coupling of N-[4-cyano-3-(trifluoromethyl)phenyl]-2-methyl-2-oxiranecarboxamide or -3-(halo or mesyloxy)-2-hydroxy-2-methylpropanamide with sodium p-fluorobenzenesulfinate)
- RN 676559-19-6 HCAPLUS
- CN Benzenesulfinic acid, 4-fluoro-, ammonium salt (9CI) (CA INDEX NAME)



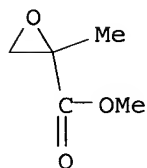
● NH₃

- IT 824-80-6, Sodium p-fluorobenzenesulfinate
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of bicalutamide by coupling of N-[4-cyano-3-(trifluoromethyl)phenyl]-2-methyl-2-oxiranecarboxamide or -3-(halo or mesyloxy)-2-hydroxy-2-methylpropanamide with sodium p-fluorobenzenesulfinate)
- RN 824-80-6 HCAPLUS
- CN Benzenesulfinic acid, 4-fluoro-, sodium salt (9CI) (CA INDEX NAME)



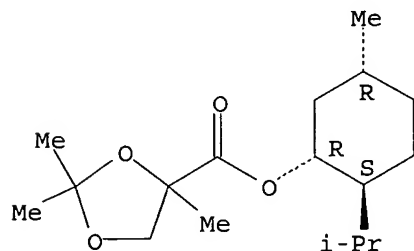
● Na

IT 58653-97-7P, Methyl 2-methyl-2-oxiranecarboxylate
 512776-89-5P, (1R,2S,5R)-2-Isopropyl-5-methylcyclohexyl
 2,2,4-trimethyl-1,3-dioxolane-4-carboxylate 512776-90-8P, Sodium
 2,2,4-trimethyl-1,3-dioxolane-4-carboxylate
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation of bicalutamide by coupling of N-[4-cyano-3-
 (trifluoromethyl)phenyl]-2-methyl-2-oxiranecarboxamide or -3-(halo or
 mesyloxy)-2-hydroxy-2-methylpropanamide with sodium
 p-fluorobenzenesulfinate)
 RN 58653-97-7 HCAPLUS
 CN Oxiranecarboxylic acid, 2-methyl-, methyl ester (9CI) (CA INDEX NAME)

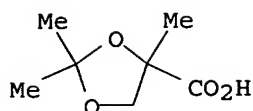


RN 512776-89-5 HCAPLUS
 CN 1,3-Dioxolane-4-carboxylic acid, 2,2,4-trimethyl-, (1R,2S,5R)-5-methyl-2-
 (1-methylethyl)cyclohexyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

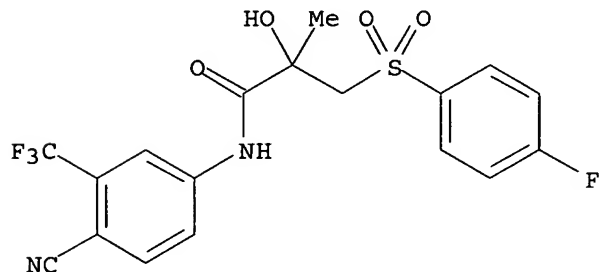


RN 512776-90-8 HCAPLUS
 CN 1,3-Dioxolane-4-carboxylic acid, 2,2,4-trimethyl-, sodium salt (9CI) (CA
 INDEX NAME)



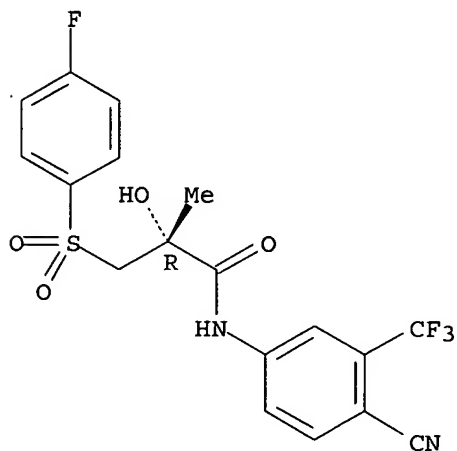
● Na

IT 90357-06-5P, Bicalutamide 113299-40-4P, (R)-Bicalutamide
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of bicalutamide by coupling of N-[4-cyano-3-(trifluoromethyl)phenyl]-2-methyl-2-orixanecarboxamide or -3-(halo or mesyloxy)-2-hydroxy-2-methylpropanamide with sodium p-fluorobenzenesulfinate)
 RN 90357-06-5 HCAPLUS
 CN Propanamide, N-[4-cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methyl- (9CI) (CA INDEX NAME)



RN 113299-40-4 HCAPLUS
 CN Propanamide, N-[4-cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methyl-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



ACCESSION NUMBER: 2003:300625 HCAPLUS
 DOCUMENT NUMBER: 138:321017
 TITLE: Process for making bicalutamide using a
 p-fluorobenzenesulfinic acid salt.
 INVENTOR(S): Thijs, Lambertus; Keltjens, Rolf; Ettema, Gerrit Jan
 Bouke
 PATENT ASSIGNEE(S): Synthron B.V., Neth.
 SOURCE: U.S. Pat. Appl. Publ., 24 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003073742	A1	20030417	US 2002-261492	20021002
US 6818766	B2	20041116		
WO 2004031136	A1	20040415	WO 2003-EP11166	20031001
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AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,				
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,				
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,				
PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,				
TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW:				
GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,				
KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,				
FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,				
BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1546093	A1	20050629	EP 2003-757932	20031001
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AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
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US 2004068135	A1	20040408	US 2003-682530	20031010
PRIORITY APPLN. INFO.:			US 2002-261492	A 20021002
			WO 2003-EP11166	W 20031001

OTHER SOURCE(S): CASREACT 138:321017; MARPAT 138:321017

AB Title process is claimed. Thus, N-[4-cyano-3-(trifluoromethyl)phenyl]-2-methyl-2-oxiranecarboxamide (preparation given), Na p-fluorobenzenesulfinate, and Bu4NBr were refluxed together for 96 h to give 48% bicalutamide.

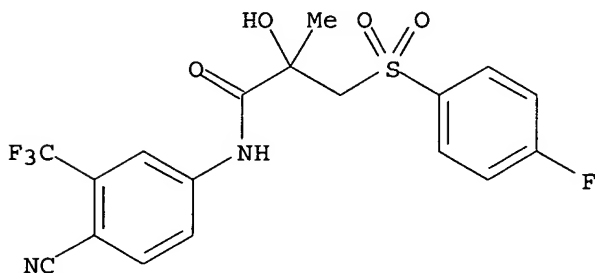
IT 90357-06-5P, Bicalutamide 113299-40-4P

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(process for making bicalutamide using a p-fluorobenzenesulfinic acid salt)

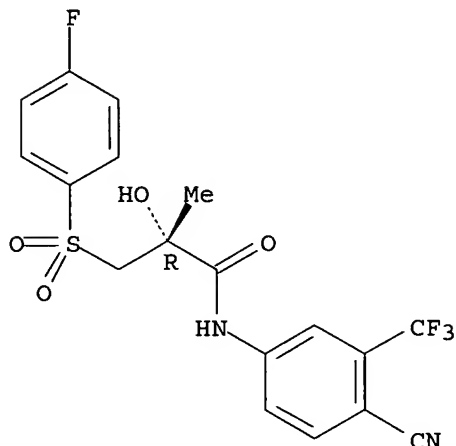
RN 90357-06-5 HCAPLUS

CN Propanamide, N-[4-cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methyl- (9CI) (CA INDEX NAME)



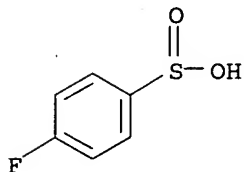
RN 113299-40-4 HCAPLUS
 CN Propanamide, N-[4-cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methyl-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

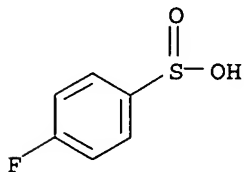


IT 369-51-7D, p-Fluorobenzenesulfinic acid, salts 824-80-6,
 Sodium p-fluorobenzenesulfinate
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (process for making bicalutamide using a p-fluorobenzenesulfinic acid salt)

RN 369-51-7 HCAPLUS
 CN Benzenesulfinic acid, 4-fluoro- (9CI) (CA INDEX NAME)



RN 824-80-6 HCAPLUS
 CN Benzenesulfinic acid, 4-fluoro-, sodium salt (9CI) (CA INDEX NAME)



● Na

IT 58653-97-7P 512776-89-5P 512776-90-8P

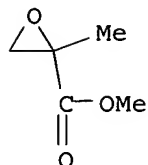
Sackey 10_682530

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)

(process for making bicalutamide using a p-fluorobenzenesulfinic acid
salt)

RN 58653-97-7 HCAPLUS

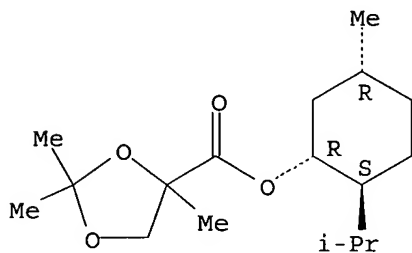
CN Oxiranecarboxylic acid, 2-methyl-, methyl ester (9CI) (CA INDEX NAME)



RN 512776-89-5 HCAPLUS

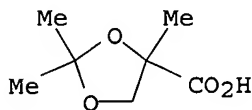
CN 1,3-Dioxolane-4-carboxylic acid, 2,2,4-trimethyl-, (1R,2S,5R)-5-methyl-2-(1-methylethyl)cyclohexyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 512776-90-8 HCAPLUS

CN 1,3-Dioxolane-4-carboxylic acid, 2,2,4-trimethyl-, sodium salt (9CI) (CA INDEX NAME)



● Na

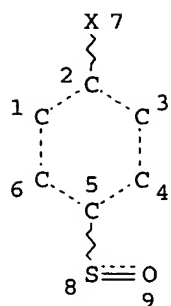
REFERENCE COUNT:

18

THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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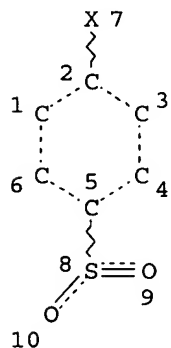
L2 STR



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 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
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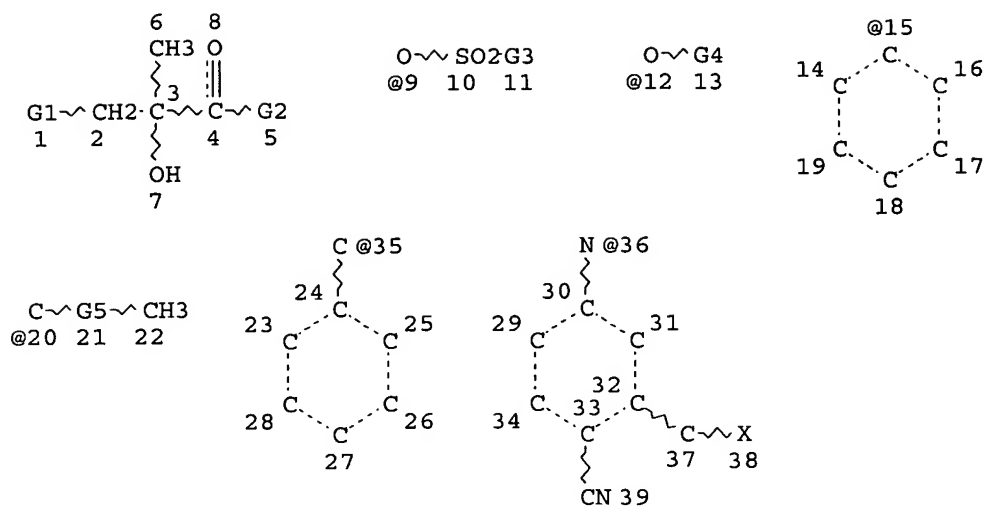
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 L4 STR



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 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
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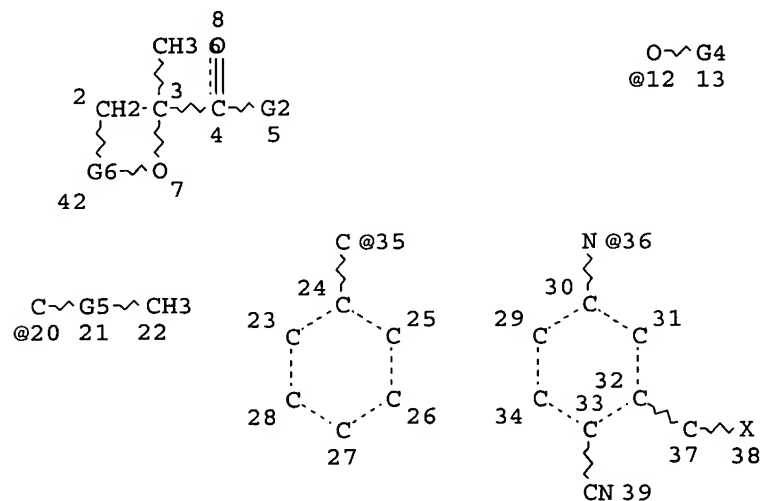
STEREO ATTRIBUTES: NONE
 L5 51757 SEA FILE=REGISTRY SUB=L3 SSS FUL L4
 L9 STR



VAR G1=X/9
 VAR G2=OH/12
 VAR G3=OH/ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/15
 VAR G4=ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/20/CB/35/36
 REP G5=(3-4) C
 NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 39

STEREO ATTRIBUTES: NONE
 L10 STR

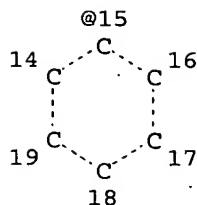
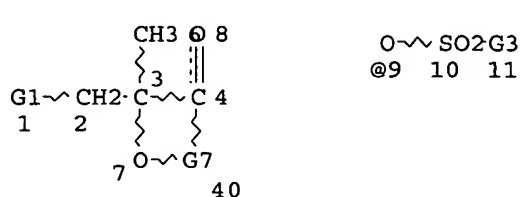


VAR G2=OH/12
 VAR G4=ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/20/CB/35/36
 REP G5=(3-4) C
 REP G6=(0-3) A

NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 30

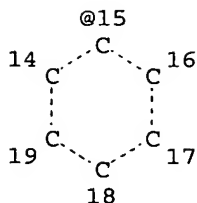
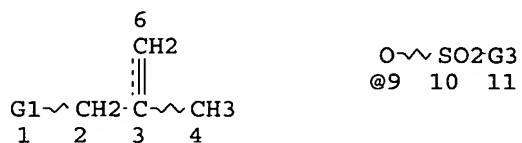
STEREO ATTRIBUTES: NONE
 L11 STR



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 VAR G3=OH/ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/15
 REP G7=(2-7) A
 NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
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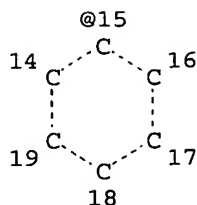
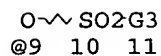
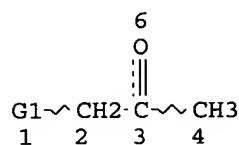
STEREO ATTRIBUTES: NONE
 L12 STR



VAR G1=X/9
 VAR G3=OH/ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/15
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 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 14

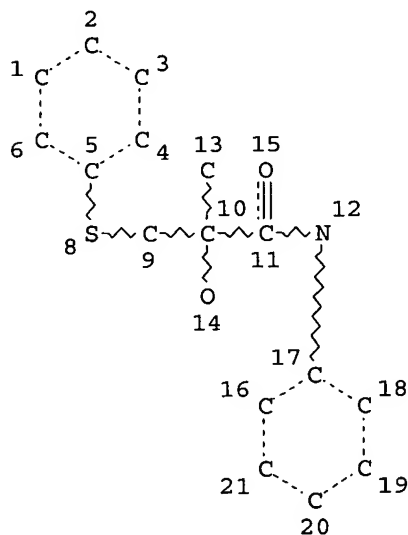
STEREO ATTRIBUTES: NONE
 L13 STR



VAR G1=X/9
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GRAPH ATTRIBUTES:
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 NUMBER OF NODES IS 14

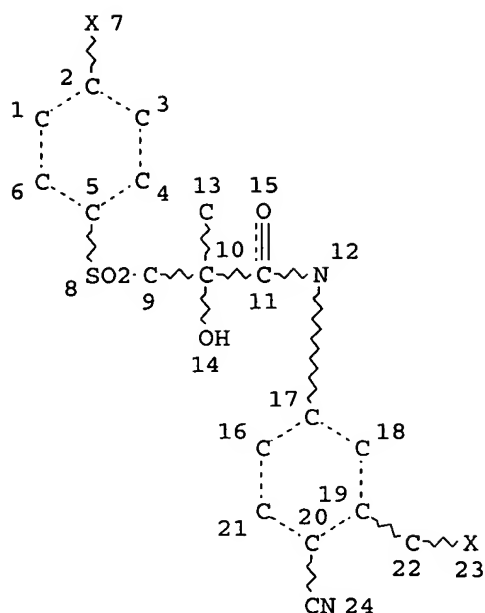
STEREO ATTRIBUTES: NONE
 L17 STR



NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 20

STEREO ATTRIBUTES: NONE
 L20 1437 SEA FILE=REGISTRY SSS FUL L9 OR L10 OR L11 OR L12 OR L13
 L22 210 SEA FILE=REGISTRY SSS FUL L17
 L23 STR



NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 24

STEREO ATTRIBUTES: NONE
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 L25 484 SEA FILE=HCAPLUS ABB=ON PLU=ON L24
 L26 15691 SEA FILE=HCAPLUS ABB=ON PLU=ON L5
 L27 8894 SEA FILE=HCAPLUS ABB=ON PLU=ON L20
 L36 27 SEA FILE=HCAPLUS ABB=ON PLU=ON L24/P
 L37 14 SEA FILE=HCAPLUS ABB=ON PLU=ON L25 AND L26
 L38 12 SEA FILE=HCAPLUS ABB=ON PLU=ON L25 AND L27
 L40 39 SEA FILE=HCAPLUS ABB=ON PLU=ON L36 OR L37 OR L38

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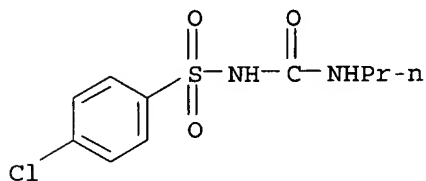
=> d his l41

(FILE 'HCAPLUS' ENTERED AT 09:26:06 ON 20 AUG 2005)
 L41 14 S L40 AND PD=<OCTOBER 9, 2002

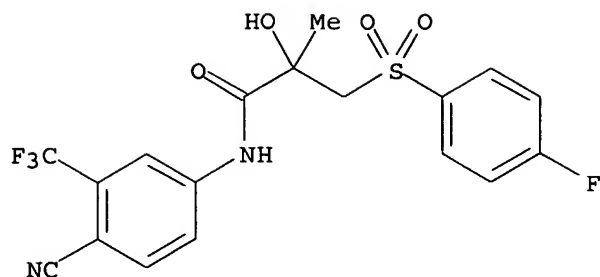
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L41 ANSWER 1 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2002:895868 HCAPLUS
 DOCUMENT NUMBER: 139:143316
 TITLE: ADME evaluation 2. A computer model for the prediction
 of intestinal absorption in humans
 AUTHOR(S): Klopman, Gilles; Stefan, Liliana R.; Saiakhov, Roustem

D.
 CORPORATE SOURCE: Department of Chemistry, Case Western Reserve
 University, Cleveland, OH, 44106, USA
 SOURCE: European Journal of Pharmaceutical Sciences (2002), 17(4-5), 253-263
 CODEN: EPSCED; ISSN: 0928-0987
 PUBLISHER: Elsevier Science Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Purpose: To develop a computational method to rapidly evaluate human intestinal absorption, one of the drug properties included in the term ADME (Absorption, Distribution, Metabolism, Excretion). Poor ADME properties are the most important reason for drug failure in clin. development. Methods: The model developed is based on a modified contribution group method in which the basic parameters are structural descriptors identified by the case program, together with the number of hydrogen bond donors. Results: The human intestinal absorption model is a quant. structure-activity relationship (QSAR) that includes 37 structural descriptors derived from the chemical structures of a data set containing 417 drugs. The model was able to predict the percentage of drug absorbed from the gastrointestinal tract with an r^2 of 0.79 and a standard deviation of 12.32% of the compds. from the training set. The standard deviation for an external test set (50 drugs) was 12.34%. Conclusions: The availability of reliable and fast models like the one we propose here to predict ADME/Tox properties could help speed up the process of finding compds. with improved properties, ultimately making the entire drug discovery process shorter and more cost efficient.
 IT 94-20-2, Chlorpropamide 90357-06-5, Bicalutamide
 RL: PKT (Pharmacokinetics); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (computer model for prediction of intestinal absorption in humans)
 RN 94-20-2 HCAPLUS
 CN Benzenesulfonamide, 4-chloro-N-[(propylamino)carbonyl]- (9CI) (CA INDEX NAME)

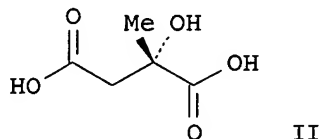
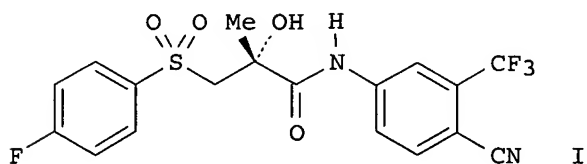


RN 90357-06-5 HCAPLUS
 CN Propanamide, N-[4-cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

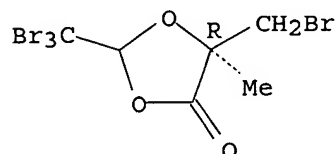
L41 ANSWER 2 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2002:509907 HCAPLUS
 DOCUMENT NUMBER: 137:384623
 TITLE: Syntheses of enantiomerically pure (R)- and (S)-bicalutamide
 AUTHOR(S): James, Kenneth D.; Ekwuribe, Nnochiri N.
 CORPORATE SOURCE: Department of Innovation, Nobex Corporation, Durham, NC, 27713, USA
 SOURCE: Tetrahedron (2002), 58(29), 5905-5908
 CODEN: TETRAB; ISSN: 0040-4020
 PUBLISHER: Elsevier Science Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 137:384623
 GI



AB The racemic antiandrogen bicalutamide is the leading antiandrogen used for the treatment of prostate cancer. The (R)-isomer possesses virtually all of the activity, but both isomers are metabolized by the liver. A convenient synthetic route to the active enantiomer would be an attractive option for patients who are hepatically impaired. We now demonstrate a rather short synthesis of (R)-bicalutamide (I), starting with naturally occurring (S)-citramalic acid (II). The authors have also used this procedure to synthesized the less active (S)-bicalutamide from the

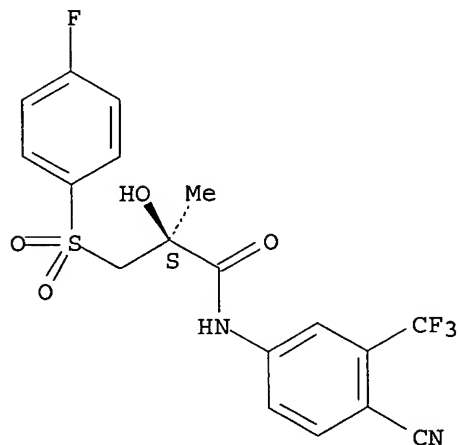
unnatural (R)-citramalic acid.
 IT 335595-50-1P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (syntheses of enantiomerically pure (R)- and (S)-bicalutamide)
 RN 335595-50-1 HCAPLUS
 CN 1,3-Dioxolan-4-one, 5-(bromomethyl)-5-methyl-2-(tribromomethyl)-, (5R)-
 (9CI) (CA INDEX NAME)

Absolute stereochemistry.



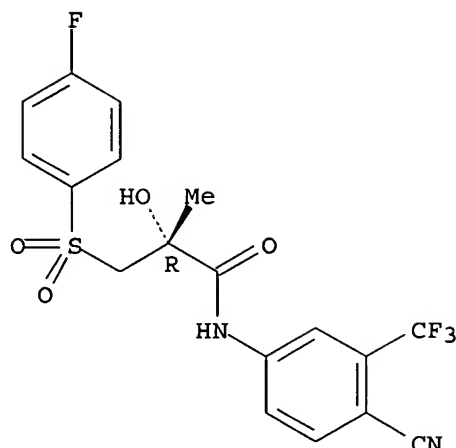
IT 113299-38-0P 113299-40-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (syntheses of enantiomerically pure (R)- and (S)-bicalutamide)
 RN 113299-38-0 HCAPLUS
 CN Propanamide, N-[4-cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 113299-40-4 HCAPLUS
 CN Propanamide, N-[4-cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methyl-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L41 ANSWER 3 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:449662 HCAPLUS

DOCUMENT NUMBER: 137:33310

TITLE: Preparation of anilinopyrimidines as IKK inhibitors

INVENTOR(S): Kois, Adam; MacFarlane, Karen J.; Satoh, Yoshitaka; Bhagwat, Shripad S.; Parnes, Jason S.; Palanki, Moorthy S. S.; Erdman, Paul E.

PATENT ASSIGNEE(S): Signal Pharmaceuticals, Inc., USA

SOURCE: PCT Int. Appl., 194 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

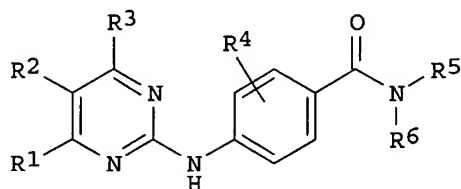
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002046171	A2	20020613	WO 2001-US46403	20011205 <--
WO 2002046171	A3	20030123		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2003203926	A1	20031030	US 2001-4642	20011204
CA 2431160	AA	20020613	CA 2001-2431160	20011205 <--
AU 2002020195	A5	20020618	AU 2002-20195	20011205 <--
EP 1349841	A2	20031008	EP 2001-999564	20011205
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004523497	T2	20040805	JP 2002-547910	20011205
PRIORITY APPLN. INFO.:			US 2000-251816P	P 20001206
			WO 2001-US46403	W 20011205
OTHER SOURCE(S):		MARPAT 137:33310		

I

L41 ANSWER 4 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2002:449661 HCAPLUS
 DOCUMENT NUMBER: 137:33309
 TITLE: Preparation of anilinopyrimidines as JNK pathway inhibitors
 INVENTOR(S): Kois, Adam; MacFarlane, Karen J.; Satoh, Yoshitaka; Bhagwat, Shripad S.; Parnes, Jason S.; Palanki, Moorthy S. S.; Erdman, Paul E.
 PATENT ASSIGNEE(S): Signal Pharmaceuticals, Inc., USA
 SOURCE: PCT Int. Appl., 199 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002046170	A2	20020613	WO 2001-US46402	20011205 <--
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CA 2430966	AA	20020613	CA 2001-2430966	20011205 <--
AU 2002027214	A5	20020618	AU 2002-27214	20011205 <--
EP 1349840	A2	20031008	EP 2001-996103	20011205
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004534728	T2	20041118	JP 2002-547909	20011205
PRIORITY APPLN. INFO.:			US 2000-251904P	P 20001206
			WO 2001-US46402	W 20011205
OTHER SOURCE(S):		MARPAT 137:33309		
GI				



AB The title compds. [I; R1 = (un)substituted (hetero)aryl; R2 = H; R3 = H, alkyl; R4 = halo, OH, alkyl, alkoxy; R5, R6 = R8, (CH2)aCOR9, (CH2)aCO2R9, etc.; or NR5R6 = (un)substituted heterocycle; R8, R9 = H, alkyl, aryl, etc.; a = 0-4] having activity as inhibitors of the JNK pathway, were prepared E.g., a multi-step synthesis of I [R1 = 4-ClC6H4; R2-R6 = H] having an IC50 of ≤ 10 μM in the JNK2 assay, was given. Such compds. I have utility in the treatment of a wide range of conditions that are responsive to inhibition of the JNK pathway. Thus, methods of

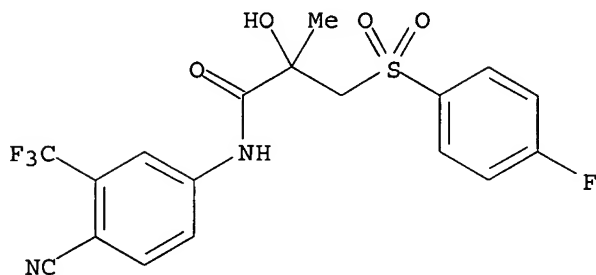
treating such conditions are also disclosed, as are pharmaceutical compns. containing one or more compds. of the above compds.

IT 90357-06-5, Bicalutamide

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(anticancer agent; preparation of anilinopyrimidines as JNK pathway inhibitors)

RN 90357-06-5 HCAPLUS

CN Propanamide, N-[4-cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methyl- (9CI) (CA INDEX NAME)



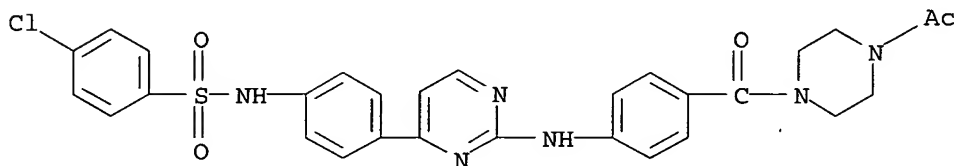
IT 434948-10-4P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of anilinopyrimidines as JNK pathway inhibitors)

RN 434948-10-4 HCAPLUS

CN Piperazine, 1-acetyl-4-[4-[4-[4-[(4-chlorophenyl)sulfonyl]amino]phenyl]-2-pyrimidinyl]amino]benzoyl- (9CI) (CA INDEX NAME)



L41 ANSWER 5 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:414656 HCAPLUS

DOCUMENT NUMBER: 137:262824

TITLE: A two-step synthesis of the anti-cancer drug
(R,S)-bicalutamide

AUTHOR(S): James, Kenneth D.; Ekwuribe, Nnochiri N.

CORPORATE SOURCE: Department of Innovation, Nobex Corporation, Durham,
NC, 27713, USA

SOURCE: Synthesis (2002), (7), 850-852

CODEN: SYNTBF; ISSN: 0039-7881

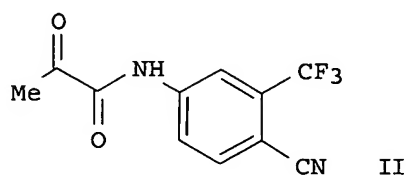
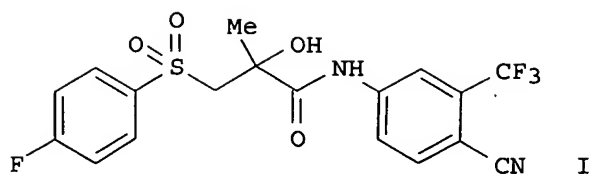
PUBLISHER: Georg Thieme Verlag

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 137:262824

GI

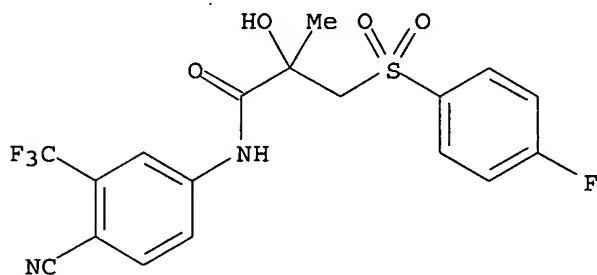


AB A short, efficient synthesis of the non-steroidal antiandrogen (R,S)-bicalutamide I is presented. This new route generates bicalutamide in only two steps with an overall yield of 73%. The key step is a 1,2-addition of 4-fluorophenyl methylsulfone to a keto-amide II.

IT 90357-06-5P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (two-step synthesis of the anti-cancer drug (R,S)-bicalutamide via addition reaction of 4-fluorophenyl methylsulfone to keto-amide)

RN 90357-06-5 HCAPLUS

CN Propanamide, N-[4-cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L41 ANSWER 6 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:240719 HCAPLUS

DOCUMENT NUMBER: 136:262992

TITLE: Process for the preparation of N-(substituted phenyl)-3-alkyl-, aryl- and heteroarylsulfonyl-2-hydroxy-2-alkyl- and haloalkylpropanamide antiandrogenic compounds

INVENTOR(S): Chen, Bang-Chi; Sundeen, Joseph E.; Zhao, Rulin

PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA

SOURCE: PCT Int. Appl., 26 pp.

CODEN: PIXXD2

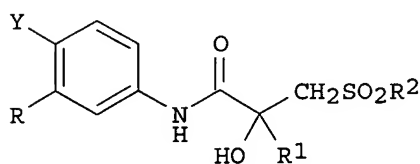
DOCUMENT TYPE: Patent

LANGUAGE: English

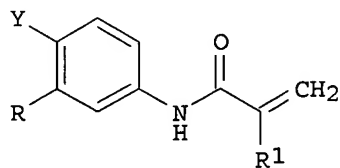
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

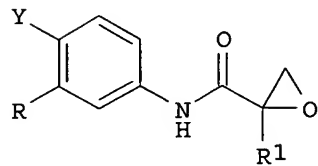
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002024638	A1	20020328	WO 2001-US42171	20010917 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2423158	AA	20020328	CA 2001-2423158	20010917 <--
US 2002086902	A1	20020704	US 2001-953759	20010917 <--
US 6562994	B2	20030513		
EP 1322603	A1	20030702	EP 2001-975752	20010917
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004509164	T2	20040325	JP 2002-529051	20010917
CN 1501912	A	20040602	CN 2001-818933	20010917
BR 2001014277	A	20041221	BR 2001-14277	20010917
PRIORITY APPLN. INFO.:			US 2000-234121P	P 20000921
			WO 2001-US42171	W 20010917
OTHER SOURCE(S):			CASREACT 136:262992; MARPAT 136:262992	
GI				



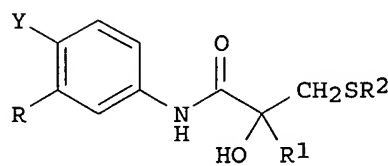
I



II



III



IV

AB The title compds. [I; Y = cyano, nitro, perfluoroalkyl, alkylcarbonyl, alkoxy carbonyl, alkylsulfonyl; R = perfluoroalkyl, cyano, nitro, alkylcarbonyl, alkoxy carbonyl, alkyl, alkoxy; R1 = (halo)alkyl; R2 = alkyl, aryl, heteroaryl; e.g., bicalutamide], useful for the treatment of androgen-mediated diseases (no data), are prepared without the use of chromatog. sepns. and expensive starting materials by phenylating propenamides H2NCOC(R1):CH2 (e.g., methacrylamide) with leaving group-substituted benzenes 1,2,4-C6H3Y(R)X (X = F, Cl, Br, I, SO3R3; R3 =

alkyl, aryl; e.g., 4-fluoro-2-trifluoromethylbenzonitrile) so as to form a N-phenyl-substituted propenamides [II; e.g., N-[4-Cyano-3-(trifluoromethyl)phenyl]methacrylamide] which are then oxidized into the corresponding epoxides [III; e.g., N-[4-Cyano-3-(trifluoromethyl)phenyl]methacrylamide epoxide], converted into thioethers [IV; e.g., N-[4-Cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl)thio]-2-hydroxy-2-methylpropanamide] by reaction with mercaptans R₂SH (e.g., 4-fluorothiophenol), and then oxidized into their corresponding sulfones.

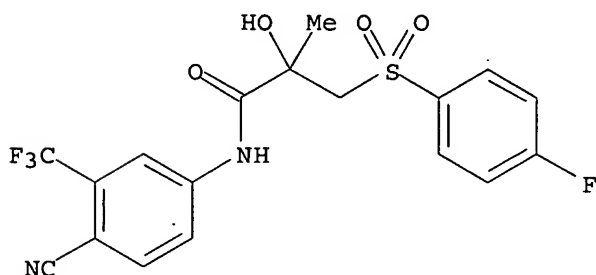
IT 90357-06-5P, Bicalutamide

RL: SPN (Synthetic preparation); PREP (Preparation)

(process for the preparation of N-(substituted phenyl)-3-alkyl-, aryl- and heteroarylsulfonyl-2-hydroxy-2-alkyl- and haloalkylpropanamide antiandrogenic compds.)

RN 90357-06-5 HCAPLUS

CN Propanamide, N-[4-cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L41 ANSWER 7 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:359958 HCAPLUS

DOCUMENT NUMBER: 134:366692

TITLE: Resolution of intermediates in the synthesis of enantiomeric bicalutamide and analogs

INVENTOR(S): Ekwuribe, Nnochiri N.; James, Kenneth D.

PATENT ASSIGNEE(S): Nobex Corporation, USA

SOURCE: PCT Int. Appl., 27 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

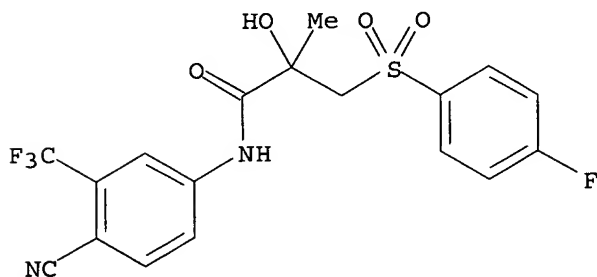
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001034563	A1	20010517	WO 2000-US41609	20001025 <--
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
CA 2389100	AA	20010517	CA 2000-2389100	20001025 <--

BR 2000015124 A 20020702 BR 2000-15124 20001025 <--
 EP 1224167 A1 20020724 EP 2000-989719 20001025 <--
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL
 JP 2003513955 T2 20030415 JP 2001-536512 20001025
 US 6593492 B1 20030715 US 2000-695884 20001025
 NZ 518552 A 20031031 NZ 2000-518552 20001025
 ZA 2002003228 A 20030723 ZA 2002-3228 20020423
 NO 2002001999 A 20020620 NO 2002-1999 20020426 <--
 PRIORITY APPLN. INFO.: US 1999-161884P P 19991027
 WO 2000-US41609 W 20001025

OTHER SOURCE(S): MARPAT 134:366692

AB Title enantiomeric acylanilides were prepared by resolution of
 R4ZZ1Z2CR1(OH)CO2H [R1 = (halo)alkyl; R4 = (hydroxy)alkyl, alkenyl,
 (un)substituted Ph, etc.; Z = bond or alkylene; Z1 = O, SO0-2,
 (alkyl)imino; Z2 = alkylene] followed by amidation.
 IT 90357-06-5P, Bicalutamide
 RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP
 (Preparation)
 (resolution of intermediates in the synthesis of enantiomeric bicalutamide
 and analogs)
 RN 90357-06-5 HCAPLUS
 CN Propanamide, N-[4-cyano-3-(trifluoromethyl)phenyl]-3-[(4-
 fluorophenyl)sulfonyl]-2-hydroxy-2-methyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L41 ANSWER 8 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2001:306242 HCAPLUS
 DOCUMENT NUMBER: 135:87257
 TITLE: Homology Modeling Using Multiple Molecular Dynamics
 Simulations and Docking Studies of the Human Androgen
 Receptor Ligand Binding Domain Bound to Testosterone
 and Nonsteroidal Ligands
 AUTHOR(S): Marhefka, Craig A.; Moore, Bob M. ,II; Bishop, Thomas
 C.; Kirkovsky, Leonid; Mukherjee, Arnab; Dalton, James
 T.; Miller, Duane D.
 CORPORATE SOURCE: Department of Pharmaceutical Sciences College of
 Pharmacy, University of Tennessee-Health Science
 Center, Memphis, TN, 38163, USA
 SOURCE: Journal of Medicinal Chemistry (2001),
 44(11), 1729-1740
 CODEN: JMCMAR; ISSN: 0022-2623
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB To facilitate the rational design of novel and more potent androgen receptor ligands, three-dimensional models for the human androgen receptor ligand binding domain bound to testosterone have been developed. These models of the androgen receptor were based on the crystal structure of the highly homologous human progesterone receptor ligand binding domain. The homol. modeled androgen receptor was refined using unrestrained multiple mol. dynamics simulations in explicit solvent. Key H-bonding partners with the 17-hydroxy group and 3-keto group of testosterone are Asn705 and Thr877, and Gln711 and Arg752, resp. These models show the presence of a unique unoccupied cavity within the androgen receptor binding pocket which may be valuable in the development of novel selective androgen receptor ligands. A qual. anal. of amino acid mutations within the hAR binding pocket that affect ligand binding are consistent with these androgen receptor models. In addition to testosterone, the binding modes of several hydroxyflutamide-like nonsteroidal ligands for the androgen receptor are investigated using flexible docking with FlexX followed by refinement of the initial complexes with mol. dynamics simulations. These docking studies indicate that Asn705 is an important determinant in binding hydroxyflutamide and its derivs. by participating in H-bond interactions with the α -hydroxy moiety of these ligands. In addition, the nitro functionality mimics the 3-keto group of the natural ligand testosterone and is involved in H-bonding interactions with Gln711 and Arg752. From these docking studies, we suggest a mechanism for the enantioselective binding of chiral hydroxyflutamide derivs. and expand upon the previously reported structure-activity relationship for hydroxyflutamide and its derivs.

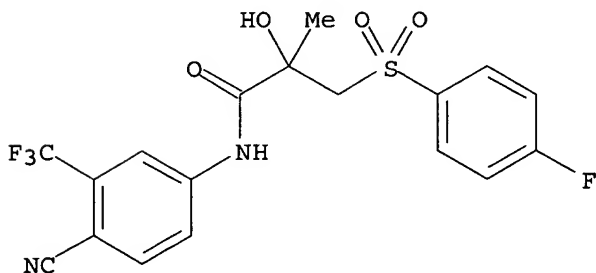
IT 90357-06-5, Bicalutamide

RL: BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); PROC (Process)

(homol. modeling using multiple mol. dynamics simulations and docking studies of human androgen receptor ligand binding domain bound to testosterone and hydroxyflutamide derivative ligands)

RN 90357-06-5 HCAPLUS

CN Propanamide, N-[4-cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methyl- (9CI) (CA INDEX NAME)



IT 106089-19-4 106138-80-1

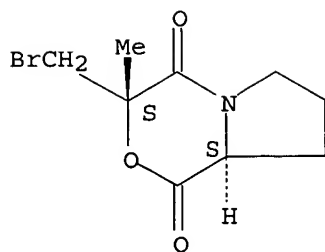
RL: RCT (Reactant); RACT (Reactant or reagent)

(in hydroxyflutamide derivative preparation for human androgen receptor ligand-binding structure-activity mol. dynamics simulation and docking studies)

RN 106089-19-4 HCAPLUS

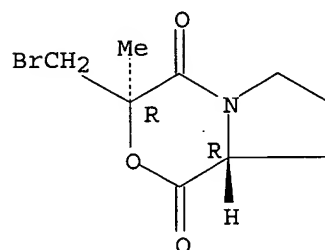
CN 1H-Pyrrolo[2,1-c][1,4]oxazine-1,4(3H)-dione, 3-(bromomethyl)tetrahydro-3-methyl-, (3S,8aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 106138-80-1 HCAPLUS
 CN 1H-Pyrrolo[2,1-c][1,4]oxazine-1,4(3H)-dione, 3-(bromomethyl)tetrahydro-3-methyl-, (3R,8aR)- (9CI) (CA INDEX NAME)

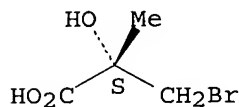
Absolute stereochemistry. Rotation (+).



IT 106089-20-7P 261904-39-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (in hydroxyflutamide derivative preparation for human androgen receptor ligand-binding structure-activity mol. dynamics simulation and docking studies)

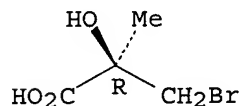
RN 106089-20-7 HCAPLUS
 CN Propanoic acid, 3-bromo-2-hydroxy-2-methyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 261904-39-6 HCAPLUS
 CN Propanoic acid, 3-bromo-2-hydroxy-2-methyl-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

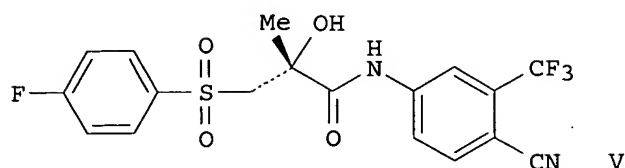
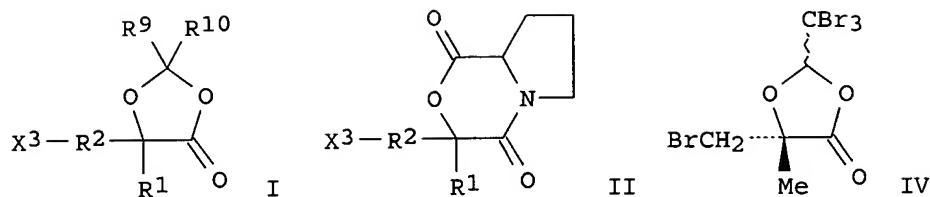


REFERENCE COUNT: 59 THERE ARE 59 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L41 ANSWER 9 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STM

ACCESSION NUMBER: 2001:300671 HCAPLUS
 DOCUMENT NUMBER: 134:326279
 TITLE: Asymmetric synthesis and antiandrogenic use of enantiomers of Casodex (bicalutamide) and derivatives from enantiomers of citramalic acid or proline.
 INVENTOR(S): Ekwuribe, Nnochiri
 PATENT ASSIGNEE(S): Nobex Corporation, USA
 SOURCE: PCT Int. Appl., 44 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001028990	A2	20010426	WO 2000-US41233	20001018 <--
WO 2001028990	A3	20010907		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2387570	AA	20010426	CA 2000-2387570	20001018 <--
EP 1222165	A2	20020717	EP 2000-982690	20001018 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
BR 2000014889	A	20021231	BR 2000-14889	20001018
JP 2003512351	T2	20030402	JP 2001-531790	20001018
US 6583306	B1	20030624	US 2000-691621	20001018
NZ 518392	A	20040227	NZ 2000-518392	20001018
ZA 2002002947	A	20030715	ZA 2002-2947	20020415
NO 2002001831	A	20020619	NO 2002-1831	20020418 <--
US 2004030130	A1	20040212	US 2003-444343	20030523
PRIORITY APPLN. INFO.:			US 1999-160412P	P 19991019
			US 2000-691621	A3 20001018
			WO 2000-US41233	W 20001018
OTHER SOURCE(S): CASREACT 134:326279; MARPAT 134:326279				
GI				



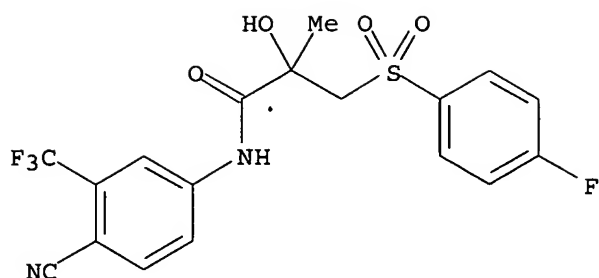
AB A method of synthesizing pure enantiomers of acylanilides such as Casodex (bicalutamide) is disclosed. The method involves contacting certain ring compds. including I, II, or similar gem-disubstituted epoxides with nucleophiles R7-R6-X1H under conditions sufficient to provide a compound R7-R6-X2-R2-C(OH)(R1)-CO₂H [wherein; R1 is alkyl or haloalkyl up to C₄; R2 is alkyl up to C₆; R6 is a bond or alkyl up to C₆; R7 is alk(en)yl, hydroxyalkyl, etc. or R7 is Ph (substituted with up to 3 substituents chosen from H, halo, nitro, carboxy, carbamoyl, etc.); X1 is O, S(O)₀₋₂, or (alkyl)imino; X2 is O, S(O)₀₋₂ or (oxidized)(alkyl)imino; X3 is a leaving group]. The starting ring compds. are those that, when opened, provide a substituent -R2-C(OH)(R1)-R3 [wherein; R3 is CH₂OR₄, where R₄ is H, PhCH₂, C(O)CH₃, C(O)OR₅, where R₅ is H or alkyl]. In an exemplary embodiment, readily available (S)-citramalic acid is reacted with bromal to yield I (R₉ = H, R₁₀ is CBr₃, R₁ is β-Me, R₂ is α-CH₂ and X₃ is CO₂H; III). Compound III is condensed with 2-mercaptopyridine-N-oxide using DCC in CBrCl₃ (solvent) at reflux which resulted in α-bromination/decarboxylation to IV. Intermediate IV was sequentially treated with base and 4-fluorobenzenethiol, coupled with 4-amino-2-trifluoromethylbenzonitrile and oxidized with mCPBA to give (R)-Casodex (V). The order of steps in the conversion of I or II to compds. exemplified by V may vary (e.g. substitution and oxidation of a sidechain of I may precede ring opening). The conversion of (R)-citramalic acid to (S)-Casodex is also claimed. Addnl., the invention mentions a modification of a route previously described for the transformation of (R)- and (S)-proline to (R)- and (S)-Casodex that improves yield proceeding through a proline-derived intermediate II. Biol. data comparing (R)-, (S)- and (±)-Casodex, synthesized by this method, in lowering testosterone response showed (R)-Casodex to be substantially more potent than the (S)-isomer.

IT 90357-06-5, Casodex

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(asym. synthesis (and use) of (R)- and (S)-Casodex (bicalutamide) from (S)- and (R)-citramalic acid)

RN 90357-06-5 HCAPLUS

CN Propanamide, N-[4-cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methyl- (9CI) (CA INDEX NAME)

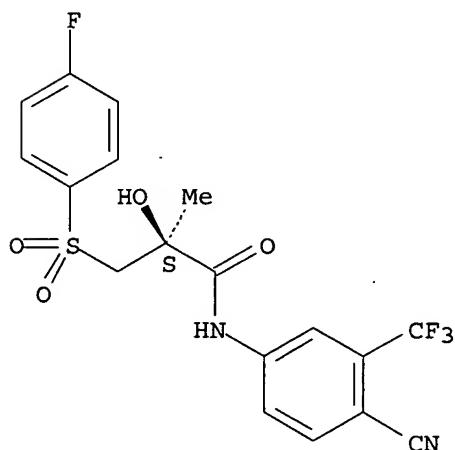


IT 113299-38-0P, S-Casodex 113299-40-4P, R-Casodex
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); IMF (Industrial manufacture); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (asym. synthesis (and use) of (R)- and (S)-Casodex (bicalutamide) from (S)- and (R)-citramalic acid)

RN 113299-38-0 HCAPLUS

CN Propanamide, N-[4-cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methyl-, (2S)- (9CI) (CA INDEX NAME)

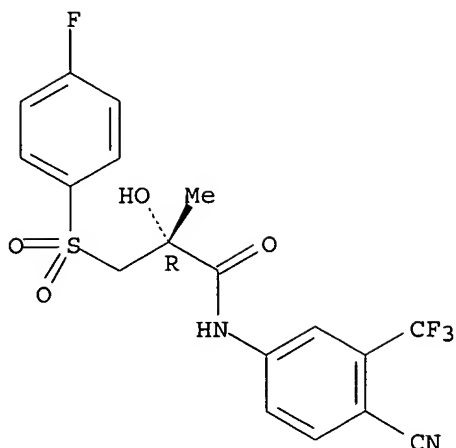
Absolute stereochemistry. Rotation (+).



RN 113299-40-4 HCAPLUS

CN Propanamide, N-[4-cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methyl-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



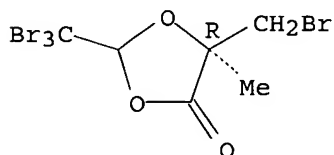
IT 335595-50-1P

RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (asym. synthesis (and use) of (R)- and (S)-Casodex (bicalutamide) from (S)- and (R)-citramalic acid)

RN 335595-50-1 HCAPLUS

CN 1,3-Dioxolan-4-one, 5-(bromomethyl)-5-methyl-2-(tribromomethyl)-, (5R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



L41 ANSWER 10 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:12441 HCAPLUS

DOCUMENT NUMBER: 134:86040

TITLE: Preparation of bicalutamide enantiomers

INVENTOR(S): Soros, Bela; Tuba, Zoltan; Galik, Gyorgy; Bor, Adam; Demeter, Adam; Trischler, Ferenc; Horvath, Janos; Brlik, Janos

PATENT ASSIGNEE(S): Richter Gedeon Vegyeszeti Gyar Rt., Hung.

SOURCE: PCT Int. Appl., 33 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001000608	A1	20010104	WO 2000-HU49	20000526 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU,				

LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE,
 SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA,
 ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
 CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

EP 1189898 A1 20020327 EP 2000-937111 20000526 <--

EP 1189898 B1 20030312

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO

AT 234294 E 20030315 AT 2000-937111 20000526

ES 2188550 T3 20030701 ES 2000-937111 20000526

PRIORITY APPLN. INFO.:

HU 1999-1937 A 19990610

WO 2000-HU49 W 20000526

OTHER SOURCE(S): CASREACT 134:86040

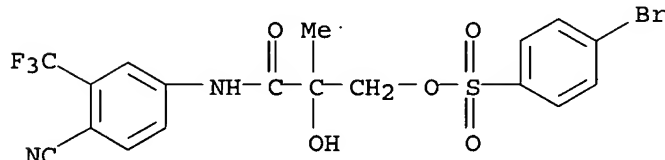
AB Racemic HOCH₂CMe(OH)CO₂H was optically resolved and the enantiomers treated with SOCl₂ to give the dioxathiolanonecarbonyl chloride which was amidated by H₂NC₆H₃(CF₃)(CN)-3,4. The deprotected dihydroxyamide was O-acylated by RSO₂Cl (R = 4-Me- or -BrC₆H₄) and the product thioetherified by 4-FC₆H₄Na to give, after oxidation, the title compds.

IT 316374-01-3P 316374-02-4P 316374-03-5P

RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of bicalutamide enantiomers)

RN 316374-01-3 HCAPLUS

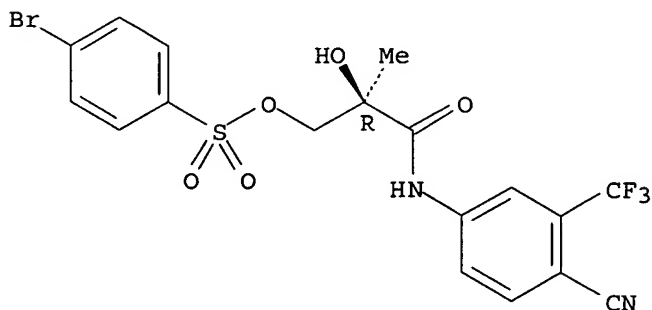
CN Benzenesulfonic acid, 4-bromo-, 3-[[4-cyano-3-(trifluoromethyl)phenyl]amino]-2-hydroxy-2-methyl-3-oxopropyl ester (9CI)
 (CA INDEX NAME)



RN 316374-02-4 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, (2R)-3-[[4-cyano-3-(trifluoromethyl)phenyl]amino]-2-hydroxy-2-methyl-3-oxopropyl ester (9CI)
 (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

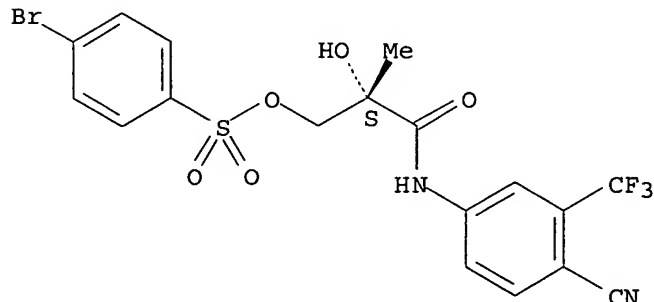


RN 316374-03-5 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, (2S)-3-[[4-cyano-3-

(trifluoromethyl)phenyl]amino]-2-hydroxy-2-methyl-3-oxopropyl ester (9CI)
(CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



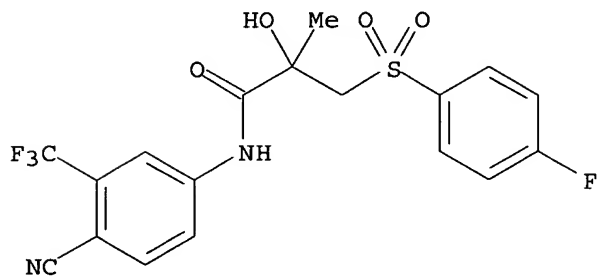
IT 90357-06-5P 113299-38-0P 113299-40-4P

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP
(Preparation)

(preparation of bicalutamide enantiomers)

RN 90357-06-5 HCAPLUS

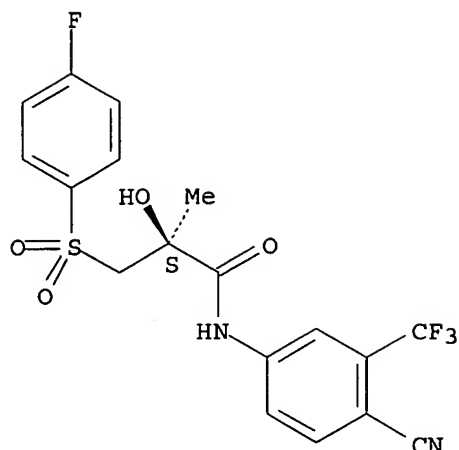
CN Propanamide, N-[4-cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methyl- (9CI) (CA INDEX NAME)



RN 113299-38-0 HCAPLUS

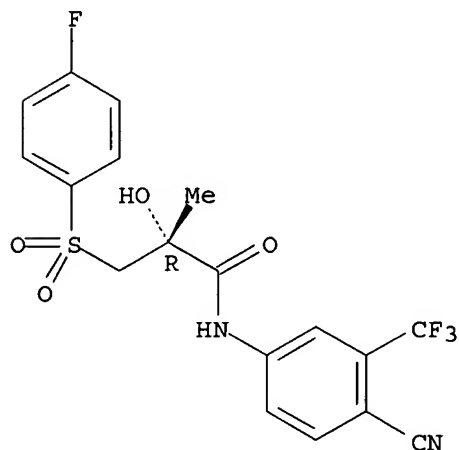
CN Propanamide, N-[4-cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 113299-40-4 HCAPLUS
 CN Propanamide, N-[4-cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methyl-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L41 ANSWER 11 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1998:804210 HCAPLUS
 DOCUMENT NUMBER: 130:49289
 TITLE: Nonsteroidal radiolabeled androgen receptor agonist/antagonist compounds, preparation, and use in prostate cancer imaging
 INVENTOR(S): Miller, Duane D.; Kirkovsky, Leonid I.; Dalton, James T.; Mukherjee, Arnab
 PATENT ASSIGNEE(S): The University of Tennessee Research Corp., USA
 SOURCE: PCT Int. Appl., 65 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9855153	A1	19981210	WO 1998-US11483	19980604 <--
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9877231	A1	19981221	AU 1998-77231	19980604 <--
US 6019957	A	20000201	US 1998-90425	19980604 <--
US 2002098148	A1	20020725	US 1999-461543	19991215 <--
PRIORITY APPLN. INFO.:			US 1997-49376P	P 19970604
			US 1998-90425	A3 19980604
			WO 1998-US11483	W 19980604

OTHER SOURCE(S): MARPAT 130:49289

AB Anilide radiolabeled androgen receptor ligands are provided, as is their use in methods of imaging the prostate. Compound preparation is also described.

IT 217170-51-9P

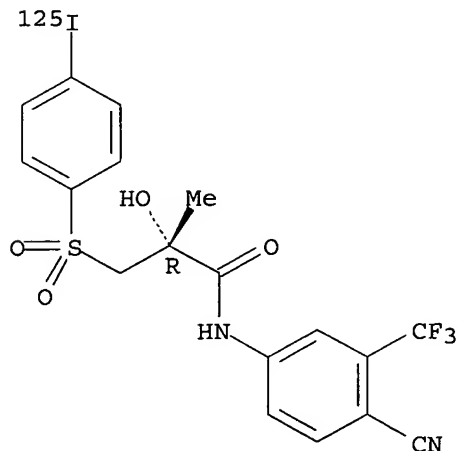
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(nonsteroidal radiolabeled androgen receptor agonist/antagonist compds., preparation, and use in prostate cancer imaging)

RN 217170-51-9 HCAPLUS

CN Propanamide, N-[4-cyano-3-(trifluoromethyl)phenyl]-2-hydroxy-3-[[4-(iodo-125I)phenyl]sulfonyl]-2-methyl-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

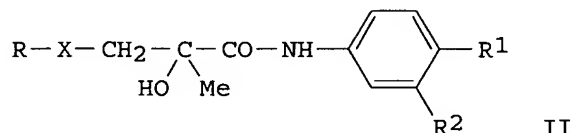
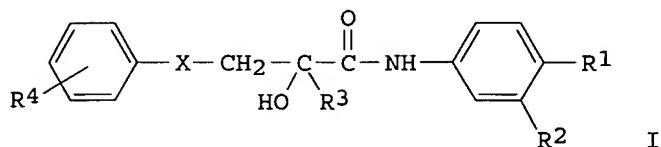
L41 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1988:161557 HCAPLUS

DOCUMENT NUMBER: 108:161557

TITLE: Nonsteroidal antiandrogens. Synthesis and structure-activity relationships of 3-substituted

derivatives of 2-hydroxypropionanilides
 AUTHOR(S): Tucker, Howard; Crook, J. W.; Chesterson, G. J.
 CORPORATE SOURCE: Pharm. Div., Imp. Chem. Ind. PLC,
 Macclesfield/Cheshire, AK10 4TG, UK
 SOURCE: Journal of Medicinal Chemistry (1988),
 31(5), 954-9
 CODEN: JMCMAR; ISSN: 0022-2623
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 108:161557
 GI



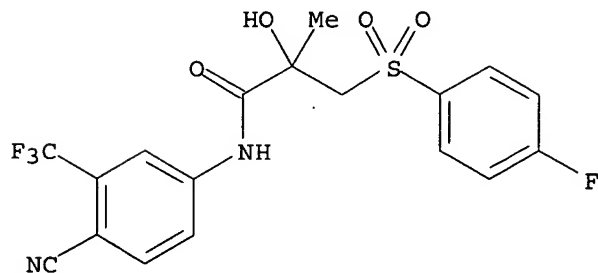
AB A series of hydroxypropionanilides of general structure I and II ($R_1, R_2 = \text{NO}_2, \text{CF}_3, \text{CN}, \text{or Cl}$; $R_3 = \text{CF}_3 \text{ or } \text{CH}_3$; $R_4 = \text{H}, \text{Cl}, \text{F}, \text{NO}_2, \text{CN}, \text{MeO}, \text{or MeS}$; $X = \text{S}, \text{SO}, \text{or SO}_2$; and $R = \text{alkyl or heterocyclic derivs.}$) were prepared and tested for antiandrogen activity by their effects on accessory sex organs in rats. A series of compds. where $R_3 = \text{CF}_3$ generally exhibited partial androgen agonist activity, whereas those compds. where $R_3 = \text{CH}_3$ were pure antagonists. Optimization of the latter series of compds. led to novel, potent antiandrogens which were peripherally selective.

IT 90357-06-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and antiandrogen activity of, structure in relation to)

RN 90357-06-5 HCAPLUS

CN Propanamide, N-[4-cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methyl- (9CI) (CA INDEX NAME)

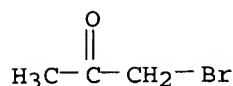


IT 598-31-2, Bromoacetone

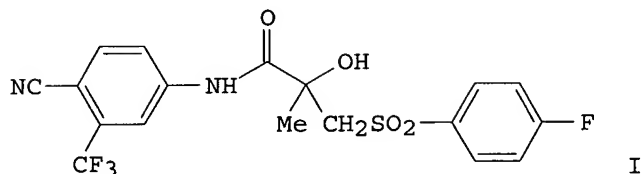
RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, with thiols)

RN 598-31-2 HCAPLUS

CN 2-Propanone, 1-bromo- (8CI, 9CI) (CA INDEX NAME)



L41 ANSWER 13 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1988:150026 HCAPLUS
 DOCUMENT NUMBER: 108:150026
 TITLE: Resolution of the non-steroidal antiandrogen
 4'-cyano-3-(4-fluorophenylsulfonyl)-2-hydroxy-2-methyl-
 3'-(trifluoromethyl)propionanilide and the
 determination of the absolute configuration of the
 active enantiomer
 AUTHOR(S): Tucker, Howard; Chesterson, Glynne J.
 CORPORATE SOURCE: Pharm. Div., Imp. Chem. Ind. PLC,
 Mereside/Macclesfield/Cheshire, SK10 4TG, UK
 SOURCE: Journal of Medicinal Chemistry (1988),
 31(4), 885-7
 CODEN: JMCMAR; ISSN: 0022-2623
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 108:150026
 GI

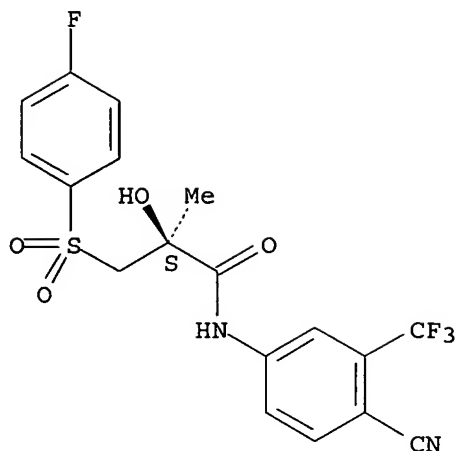


AB The nonsteroidal antiandrogen 4'-cyano-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methyl-3'-(trifluoromethyl)propionanilide (I) has been resolved by chromatog. separation of the diastereomeric (R)-camphanyl esters of the precursor thioether followed by hydrolysis and oxidation of the isolated enantiomers. In addition, an asym. synthesis of (S)-3-bromo-2-hydroxy-2-methylpropanoic acid and subsequent conversion into the (S')-sulfone has established that the more potent enantiomer of I has the R absolute configuration.

IT 113299-38-0P 113299-40-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and antiandrogen activity of)

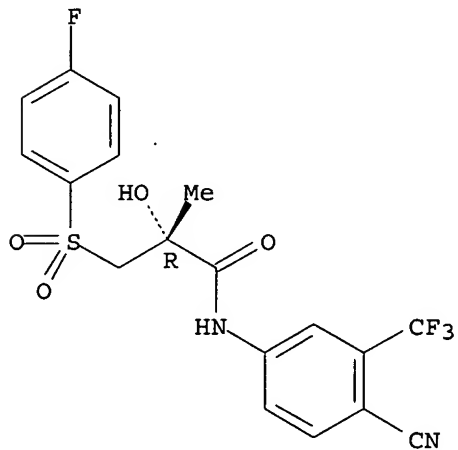
RN 113299-38-0 HCAPLUS
 CN Propanamide, N-[4-cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



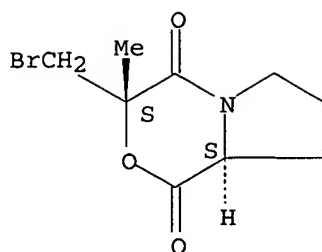
RN 113299-40-4 HCAPLUS
 CN Propanamide, N-[4-cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methyl-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



IT 106089-19-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and hydrolysis of)
 RN 106089-19-4 HCAPLUS
 CN 1H-Pyrrolo[2,1-c][1,4]oxazine-1,4(3H)-dione, 3-(bromomethyl)tetrahydro-3-methyl-, (3S,8aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



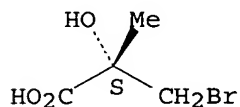
IT 106089-20-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation, chlorination, and amidation of)

RN 106089-20-7 HCAPLUS

CN Propanoic acid, 3-bromo-2-hydroxy-2-methyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



L41 ANSWER 14 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1984:454739 HCAPLUS

DOCUMENT NUMBER: 101:54739

TITLE: Amide derivatives

INVENTOR(S): Tucker, Howard

PATENT ASSIGNEE(S): Imperial Chemical Industries PLC, UK

SOURCE: Eur. Pat. Appl., 53 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

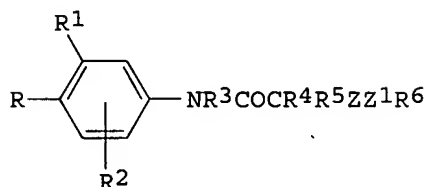
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 100172	A1	19840208	EP 1983-303998	19830708 <--
EP 100172	B1	19870812		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
AT 28864	E	19870815	AT 1983-303998	19830708 <--
IL 69217	A1	19870331	IL 1983-69217	19830713 <--
ZA 8305182	A	19840530	ZA 1983-5182	19830715 <--
US 4636505	A	19870113	US 1983-514332	19830715 <--
NO 8302599	A	19840124	NO 1983-2599	19830718 <--
NO 164974	B	19900827		
NO 164974	C	19901205		
AU 8316937	A1	19840126	AU 1983-16937	19830718 <--
AU 556328	B2	19861030		
HU 32058	O	19840628	HU 1983-2531	19830718 <--
HU 191296	B	19870227		
FI 8302644	A	19840124	FI 1983-2644	19830720 <--
FI 83770	B	19910515		
FI 83770	C	19910826		

JP 59033250	A2	19840223	JP 1983-131085	19830720 <--
JP 04032061	B4	19920528		
CA 1249823	A1	19890207	CA 1983-432811	19830720 <--
ES 524392	A1	19851101	ES 1983-524392	19830722 <--
ES 539614	A1	19860601	ES 1985-539614	19850116 <--
ES 539615	A1	19860601	ES 1985-539615	19850116 <--
ES 544189	A1	19860916	ES 1985-544189	19850614 <--
JP 02131462	A2	19900521	JP 1989-230574	19890907 <--
PRIORITY APPLN. INFO.:			GB 1982-21421	A 19820723
			EP 1983-303998	A 19830708

GI



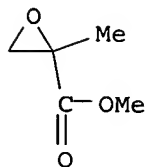
I

AB Antiandrogenic (no data) alkananilides including I [R = alkanoyl, halo, cyano, NO₂, alkylthio, alkylsulfinyl, alkylsulfonyl, PhS, PhSO, PhSO₂, etc.; R¹ = H, alkyl, alkoxy, R; R² = H, halo; R³ = H, alkyl; R⁴ = H, OH, alkoxy, acyloxy; R⁵ = alkyl, haloalkyl; R⁴R⁵ = CO₂; R⁶ = (un)substituted alkyl, alkenyl, Ph, naphthyl, heterocyclyl; Z = bond, alkylene; Z¹ = O, S, S(O), SO₂, NR₇; R₇ = H, alkyl] (124 compds.) were prepared Thus, Me 2,3-epoxy-2-methylpropionate, prepared by epoxidn. of H₂C:CM₂CO₂Me, was treated with NaH and PhSH to give PhSCH₂CM₂(OH)CO₂Me. This was saponified to give the free acid which was treated with SOCl₂ and 4,3-(NC)(F₃C)C₆H₃NH₂ to give 4,3-(NC)(F₃C)C₆H₃NHCOCMe(OH)CH₂SPh.

IT **58653-97-7P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and condensation of, with thiols)

RN 58653-97-7 HCAPLUS

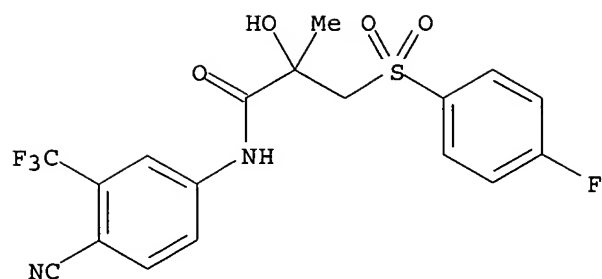
CN Oxiranecarboxylic acid, 2-methyl-, methyl ester (9CI) (CA INDEX NAME)



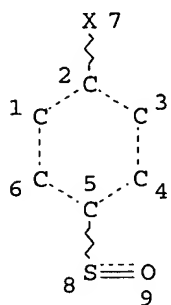
IT **90357-06-5P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

RN 90357-06-5 HCAPLUS

CN Propanamide, N-[4-cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methyl- (9CI) (CA INDEX NAME)



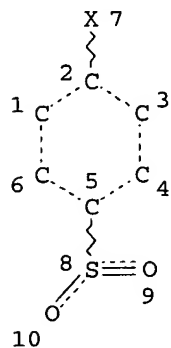
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L2 STR



NODE ATTRIBUTES:
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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 9

STEREO ATTRIBUTES: NONE
L3 120699 SEA FILE=REGISTRY SSS FUL L2
L4 STR



NODE ATTRIBUTES:
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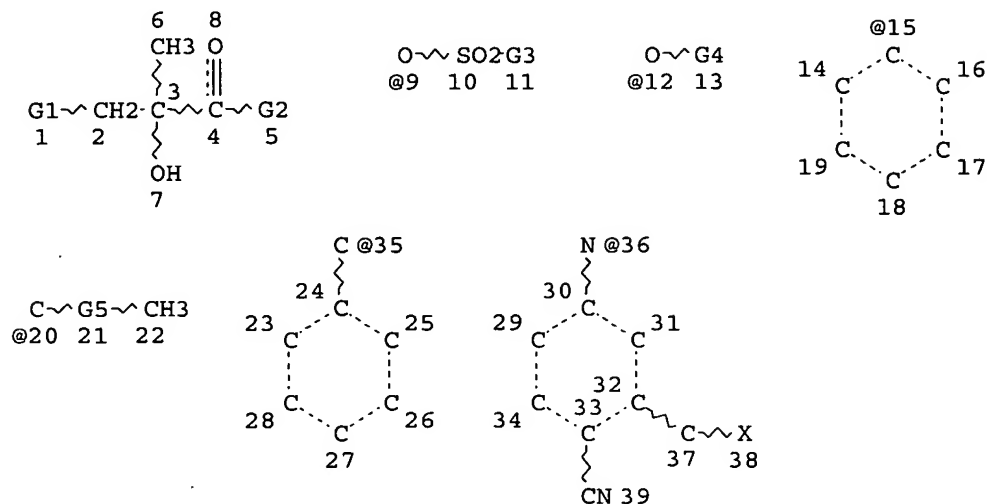
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STEREO ATTRIBUTES: NONE

L5 51757 SEA FILE=REGISTRY SUB=L3 SSS FUL L4

L9 STR



VAR G1=X/9

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VAR G3=OH/ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/15

VAR G4=ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/20/CB/35/36

REP G5=(3-4) C

NODE ATTRIBUTES:

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DEFAULT ECLEVEL IS LIMITED

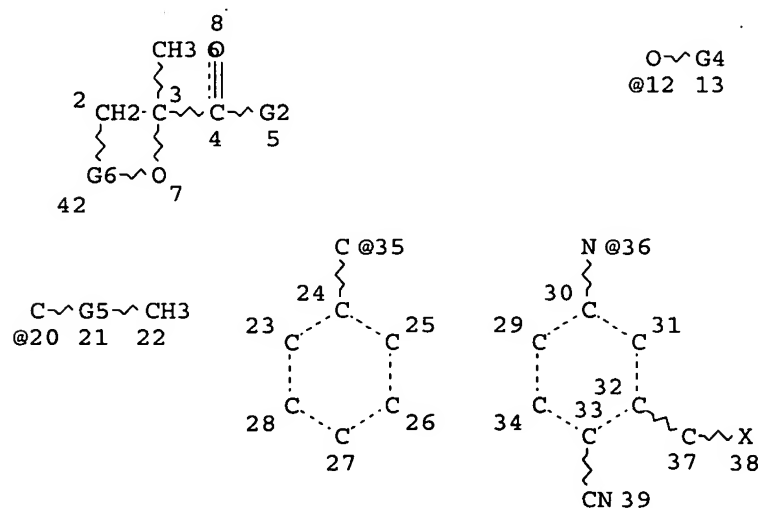
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NUMBER OF NODES IS 39

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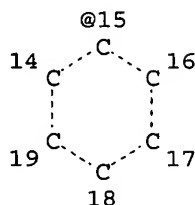
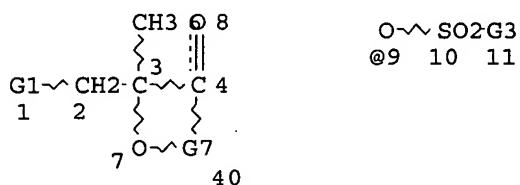
L10 STR



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 REP G5=(3-4) C
 REP G6=(0-3) A
 NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 30

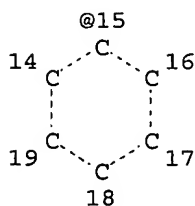
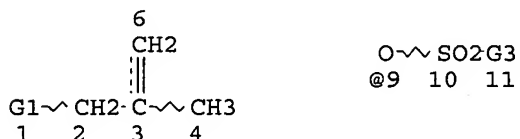
STEREO ATTRIBUTES: NONE
 L11 STR



VAR G1=X/9
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 REP G7=(2-7) A
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 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
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 NUMBER OF NODES IS 17

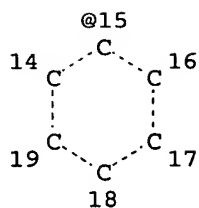
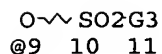
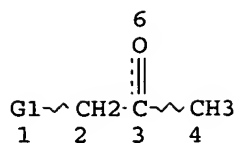
STEREO ATTRIBUTES: NONE
 L12 STR



VAR G1=X/9
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 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
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 NUMBER OF NODES IS 14

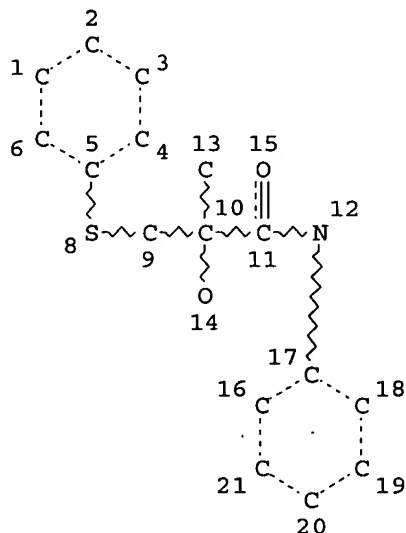
STEREO ATTRIBUTES: NONE
 L13 STR



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 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
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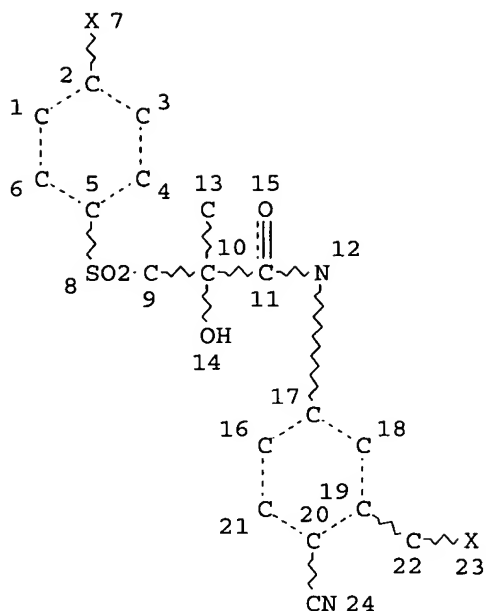
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NODE ATTRIBUTES:
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 DEFAULT ECLEVEL IS LIMITED

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 NUMBER OF NODES IS 20

STEREO ATTRIBUTES: NONE
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 L22 210 SEA FILE=REGISTRY SSS FUL L17
 L23 STR



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 24

STEREO ATTRIBUTES: NONE

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L26      15691 SEA FILE=HCAPLUS ABB=ON PLU=ON L5
L27      8894 SEA FILE=HCAPLUS ABB=ON PLU=ON L20
L28      2 SEA FILE=HCAPLUS ABB=ON PLU=ON L25 AND L26 AND L27
L32      89 SEA FILE=HCAPLUS ABB=ON PLU=ON L26 AND L27
L36      27 SEA FILE=HCAPLUS ABB=ON PLU=ON L24/P
L37      14 SEA FILE=HCAPLUS ABB=ON PLU=ON L25 AND L26
L38      12 SEA FILE=HCAPLUS ABB=ON PLU=ON L25 AND L27
L39      70 SEA FILE=HCAPLUS ABB=ON PLU=ON L32 AND PD=<OCTOBER 9, 2002
L40      39 SEA FILE=HCAPLUS ABB=ON PLU=ON L36 OR L37 OR L38
L41      14 SEA FILE=HCAPLUS ABB=ON PLU=ON L40 AND PD=<OCTOBER 9, 2002
L42      70 SEA FILE=HCAPLUS ABB=ON PLU=ON L39 NOT (L41 OR L28)
L45      3967 SEA FILE=HCAPLUS ABB=ON PLU=ON L26 (L) REACTANT/RL
L46      6032 SEA FILE=HCAPLUS ABB=ON PLU=ON L27 (L) REACTANT/RL
L47      32 SEA FILE=HCAPLUS ABB=ON PLU=ON (L45 AND L46) AND L42

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L47 ANSWER 1 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:796768 HCAPLUS

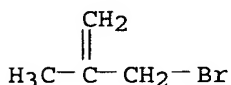
DOCUMENT NUMBER: 138:338037

TITLE: Herbicidal thiochroman and dihydrobenzothiophene-N,N-disubstituted pyrazolinones

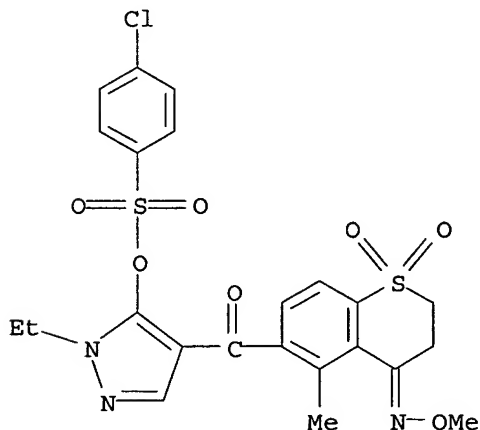
AUTHOR(S): Anon.

CORPORATE SOURCE: UK
 SOURCE: Research Disclosure (2002), 461 (Sept.),
 P1676-P1692 (No. 461084)
 CODEN: RSDSBB; ISSN: 0374-4353
 PUBLISHER: Kenneth Mason Publications Ltd.
 DOCUMENT TYPE: Journal; Patent
 LANGUAGE: English
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
RD 461084		20020910		
PRIORITY APPLN. INFO.:			RD 2002-461084	20020910
OTHER SOURCE(S):		CASREACT 138:338037		
AB	Numerous N,N-disubstituted pyrazolinone compds., which were highly effective in controlling undesirable plant species, are disclosed. The methods for the control of undesirable plant species which could also be useful in the presence of an essential agronomic crop are presented.			
IT	1458-98-6, 3-Bromo-2-methyl-1-propene 516500-85-9 RL: RCT (Reactant); RACT (Reactant or reagent) (preps. of thiochroman and dihydrobenzothiophene-N,N-disubstituted pyrazolinone derivs. as herbicidal agents)			
RN	1458-98-6 HCAPLUS			
CN	1-Propene, 3-bromo-2-methyl- (9CI) (CA INDEX NAME)			



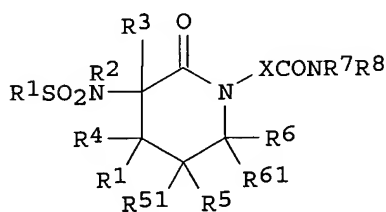
RN 516500-85-9 HCAPLUS
 CN Benzenesulfonic acid, 4-chloro-, 4-[[[3,4-dihydro-4-(methoxyimino)-5-methyl-1,1-dioxido-2H-1-benzothiopyran-6-yl]carbonyl]-1-ethyl-1H-pyrazol-5-yl ester (9CI) (CA INDEX NAME)



L47 ANSWER 2 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2002:594840 HCAPLUS
 DOCUMENT NUMBER: 137:154858
 TITLE: Preparation of arylsulfonamidopiperidones as inhibitors of Factor Xa.

INVENTOR(S): Stein, Philip P.; O'Connor, Stephen P.; Lawrence, R. Michael; Shi, Yan
 PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA
 SOURCE: PCT Int. Appl., 246 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002060894	A2	20020808	WO 2002-US2542	20020128 <--
WO 2002060894	A3	20021219		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2436774	AA	20020808	CA 2002-2436774	20020128 <--
EP 1358178	A2	20031105	EP 2002-717381	20020128
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004518688	T2	20040624	JP 2002-561043	20020128
US 6555542	B1	20030429	US 2002-59621	20020129
PRIORITY APPLN. INFO.:			US 2001-264964P	P 20010130
			WO 2002-US2542	W 20020128
OTHER SOURCE(S):			MARPAT 137:154858	
GI				



AB Title compds. [I; X = (substituted) (CH₂)_m; m = 1-3; R₁ = (substituted) alkyl, alkenyl, alkynyl, aryl, heteroaryl, etc.; R₂, R₃ = H, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, aryl, heteroaryl, etc.; R₄, R₄₁, R₅, R₅₁ = H, OH, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, aryl, heteroaryl, alkoxy, etc.; R₆, R₆₁ = H, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, aryl, heteroaryl, etc.; R₇, R₈ = (substituted) (CH₂)_nH; n = 1-4; R₇R₈N = (substituted) cycloheteroalkyl], were prepared as cardiovascular agents (no data). 974 I, including (II), were prepared

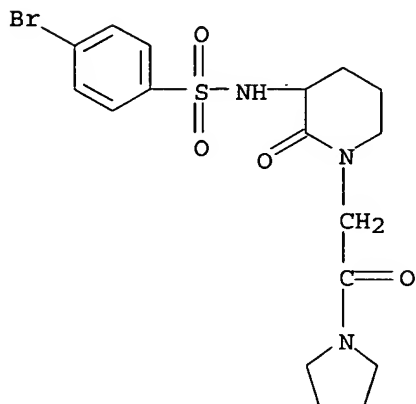
IT 445271-15-8P 445274-86-2P 445277-69-0P
 445278-08-0P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU

(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of arylsulfonamidopiperidones as inhibitors of Factor Xa)

RN 445271-15-8 HCAPLUS

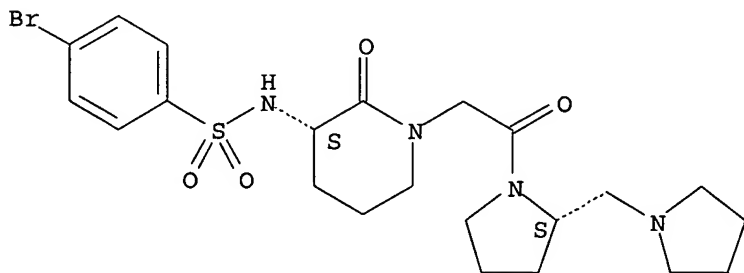
CN Pyrrolidine, 1-[[3-[[[(4-bromophenyl)sulfonyl]amino]-2-oxo-1-piperidinyl]acetyl]- (9CI) (CA INDEX NAME)



RN 445274-86-2 HCAPLUS

CN Pyrrolidine, 1-[[[(3S)-3-[[[(4-bromophenyl)sulfonyl]amino]-2-oxo-1-piperidinyl]acetyl]-2-(1-pyrrolidinylmethyl)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

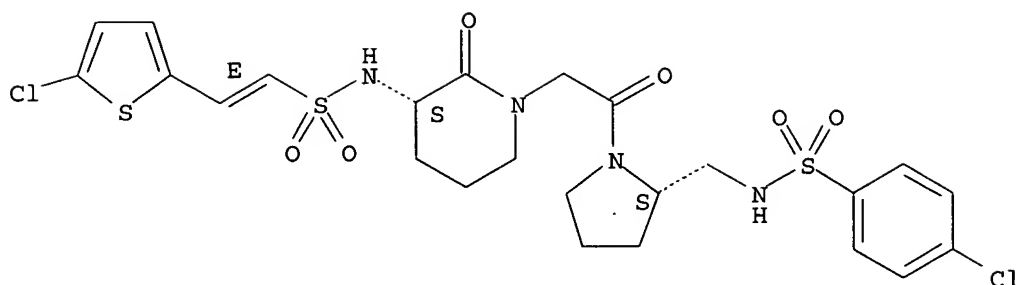


RN 445277-69-0 HCAPLUS

CN 2-Pyrrolidinemethanamine, N-[(4-chlorophenyl)sulfonyl]-1-[[[(3S)-3-[[[(1E)-2-(5-chloro-2-thienyl)ethenyl]sulfonyl]amino]-2-oxo-1-piperidinyl]acetyl]-, (2S)- (9CI) (CA INDEX NAME)

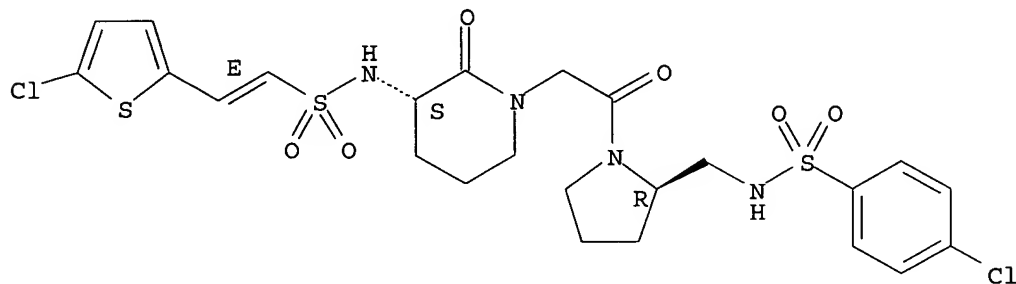
Absolute stereochemistry.

Double bond geometry as shown.

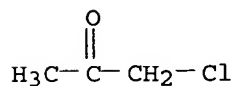


RN 445278-08-0 HCAPLUS
 CN 2-Pyrrolidinemethanamine, N-[(4-chlorophenyl)sulfonyl]-1-[[[(3S)-3-[[[(1E)-2-(5-chloro-2-thienyl)ethenyl]sulfonyl]amino]-2-oxo-1-piperidinyl]acetyl]-(2R)-(9CI)] (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry as shown.

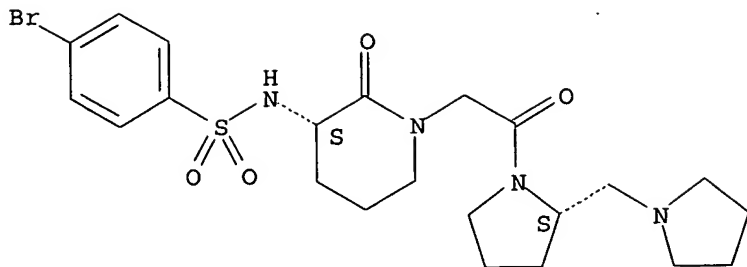


IT 78-95-5, Chloroacetone 445274-86-2D, resin-bound
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of arylsulfonamidopiperidones as inhibitors of Factor Xa)
 RN 78-95-5 HCAPLUS
 CN 2-Propanone, 1-chloro- (8CI, 9CI) (CA INDEX NAME)



RN 445274-86-2 HCAPLUS
 CN Pyrrolidine, 1-[[[(3S)-3-[[[(4-bromophenyl)sulfonyl]amino]-2-oxo-1-piperidinyl]acetyl]-2-(1-pyrrolidinylmethyl)-, (2S)-(9CI)] (CA INDEX NAME)

Absolute stereochemistry.



L47 ANSWER 3 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:575041 HCAPLUS

DOCUMENT NUMBER: 137:140338

TITLE: Preparation of aminoethanol derivatives as cholesteryl ester transfer protein inhibitors for treatment of hyperlipidemia, etc.

INVENTOR(S): Kori, Masakuni; Hamamura, Kazumasa; Fuse, Hiromitsu; Yamamoto, Toshihiro

PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan

SOURCE: PCT Int. Appl., 748 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002059077	A1	20020801	WO 2002-JP532	20020125 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2002293764	A2	20021009	JP 2002-17487	20020125 <--
EP 1362846	A1	20031119	EP 2002-710345	20020125
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2004127574	A1	20040701	US 2003-470351	20030725
PRIORITY APPLN. INFO.:			JP 2001-19280	A 20010126
			WO 2002-JP532	W 20020125

OTHER SOURCE(S): MARPAT 137:140338

AB The title compds. Ar1CH(OR'')CH(CH2Ar2)NR'R [Ar1 represents an optionally substituted aromatic ring group; Ar2 represents a substituted aromatic ring group; OR'' represents optionally protected hydroxy; R represents acyl; and R' represents hydrogen or optionally substituted hydrocarbyl] are prepared. Compds. of this invention in vitro showed IC50 values of 0.0084 μ M to 0.4 μ M against cholesteryl ester transfer protein. A process for preparing the title compds. is claimed.

IT 444912-33-8P

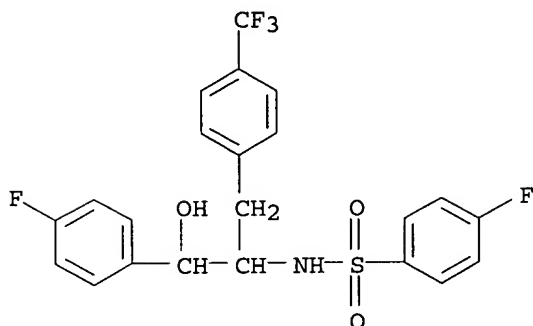
RL: IMF (Industrial manufacture); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study);

PREP (Preparation); USES (Uses)

(preparation of aminoethanol derivs. as cholesteryl ester transfer protein inhibitors for treatment of hyperlipidemia)

RN 444912-33-8 HCAPLUS

CN Benzenesulfonamide, 4-fluoro-N-[2-(4-fluorophenyl)-2-hydroxy-1-[[4-(trifluoromethyl)phenyl]methyl]ethyl]- (9CI) (CA INDEX NAME)



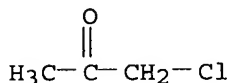
IT 78-95-5, Chloroacetone

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of aminoethanol derivs. as cholesteryl ester transfer protein inhibitors for treatment of hyperlipidemia)

RN 78-95-5 HCAPLUS

CN 2-Propanone, 1-chloro- (8CI, 9CI) (CA INDEX NAME)



IT 444913-21-7P

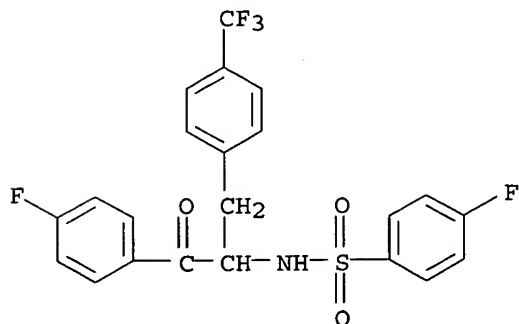
RL: RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)

(preparation of aminoethanol derivs. as cholesteryl ester transfer protein inhibitors for treatment of hyperlipidemia)

RN 444913-21-7 HCAPLUS

CN Benzenesulfonamide, 4-fluoro-N-[2-(4-fluorophenyl)-2-oxo-1-[[4-(trifluoromethyl)phenyl]methyl]ethyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT:

8

THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 4 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:772163 HCAPLUS

DOCUMENT NUMBER: 135:318510

TITLE: Preparation of arylpyridazinones as prostaglandin
endoperoxide H synthase biosynthesis inhibitorsINVENTOR(S): Black, Lawrence A.; Basha, Anwer; Kolasa, Teodozyj;
Kort, Michael E.; Liu, Huaqing; McCarty, Catherine M.;
Patel, Meena; Rohde, Jeffrey J.; Coghlan, Michael J.;
Stewart, Andrew O.

PATENT ASSIGNEE(S): Abbott Laboratories, USA

SOURCE: U.S., 129 pp., Cont.-in-part of U.S. Ser. No. 261,872,
abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

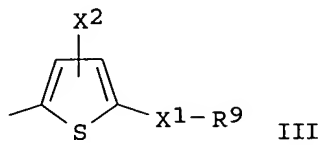
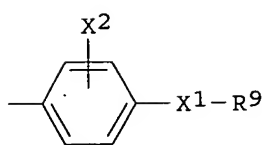
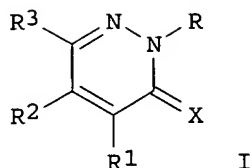
FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6307047	B1	20011023	US 1999-427768	19991027 <--
TR 200000478	T2	20020422	TR 2000-200000478	19980810 <--
CA 2347982	AA	20000504	CA 1999-2347982	19991027 <--
WO 2000024719	A1	20000504	WO 1999-US25234	19991027 <--
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9965230	A1	20000515	AU 1999-65230	19991027 <--
AU 773237	B2	20040520		
EP 1124804	A1	20010822	EP 1999-953259	19991027 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
BR 9914858	A	20020205	BR 1999-14858	19991027 <--
TR 200101765	T2	20020221	TR 2001-200101765	19991027 <--
JP 2003512292	T2	20030402	JP 2000-578289	19991027
ZA 2001003310	A	20020723	ZA 2001-3310	20010423 <--
NO 2001002061	A	20010627	NO 2001-2061	20010426 <--
BG 105523	A	20011231	BG 2001-105523	20010519 <--
US 2002013318	A1	20020131	US 2001-871195	20010531 <--
US 2002028938	A1	20020307	US 2001-870838	20010531 <--
US 2003225276	A1	20031204	US 2003-417959	20030417
US 2004158064	A1	20040812	US 2003-464928	20030619
PRIORITY APPLN. INFO.:				
			US 1997-56733P	P 19970822
			US 1998-129570	B2 19980805
			US 1998-137457	B2 19980820
			US 1998-179605	B2 19981027
			US 1999-261872	B2 19990303
			US 1997-917023	A 19970822
			US 1999-298490	A 19990423
			US 1999-427768	A 19991027
			WO 1999-US25234	W 19991027
			US 2001-870838	B3 20010531

OTHER SOURCE(S) :
GI

MARPAT 135:318510



AB The title compds. [I; X = O, S, NR₄, etc.; R₄ = alkyl, alkenyl, cycloalkyl, etc.; R = H, alkyl, alkenyl, etc.; at least one of R₁-R₃ = II-III (wherein X₁ = SO₂, SO(NR₁₀), SO, etc.; R₉ = alkyl, alkenyl, alkynyl, etc.; X₂ = H, halo, alkyl, etc.; R₁₀ = H, alkyl, cycloalkyl); the remaining two of the groups of R₁-R₃ = H, OH, hydroxyalkyl, etc.] which are cyclooxygenase (COX) inhibitors, and in particular, are selective inhibitors of cyclooxygenase-2 (COX-2), and therefore are useful in treating pain, fever, inflammation, rheumatoid arthritis, and osteoarthritis, were prepared Thus, oxidation of

2-benzyl-4-(4-fluorophenyl)-5-

[4-(methylthio)phenyl]-3(2H)-pyridazinone (preparation given) with MeCO₃H in CH₂Cl₂ afforded 86% I [X = O; R = PhCH₂; R₁ = 4-FC₆H₄; R₂ = 4-(MeSO₂)C₆H₄; R₃ = H], which showed IC₅₀ of 0.014 μM against COX-2. COX-2 is the inducible isoform associated with inflammation, as opposed to the constitutive isoform, cyclooxygenase-1 (COX-1) which is an important "housekeeping" enzyme in many tissues, including the gastrointestinal (GI) tract and the kidneys. The selectivity of the compds. I for COX-2 minimizes the unwanted GI and renal side-effects seen with currently marketed non-steroidal anti-inflammatory drugs (NSAIDs).

IT 563-47-3, 3-Chloro-2-methylpropene 701-34-8,

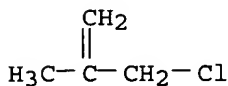
4-Aminosulfonyl-1-bromobenzene

RL: RCT (Reactant); RACT (Reactant or reagent)

(reactant; preparation of arylpyridazinones as prostaglandin endoperoxide H synthase biosynthesis inhibitors)

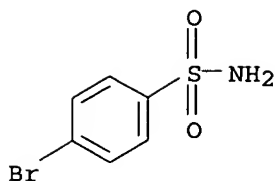
RN 563-47-3 HCAPLUS

CN 1-Propene, 3-chloro-2-methyl- (9CI) (CA INDEX NAME)



RN 701-34-8 HCAPLUS

CN Benzenesulfonamide, 4-bromo- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 5 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:265252 HCAPLUS

DOCUMENT NUMBER: 134:295810

TITLE: Synthesis and use of substituted pyrrolidin-1-yl hexanoic acid derivatives as $\alpha\text{v}\beta 3$ and $\alpha\text{v}\beta 5$ integrin receptors

INVENTOR(S): Askew, Ben C.; Smith, Garry R.

PATENT ASSIGNEE(S): Merck & Co., Inc., USA

SOURCE: PCT Int. Appl., 141 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

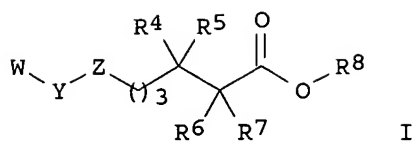
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

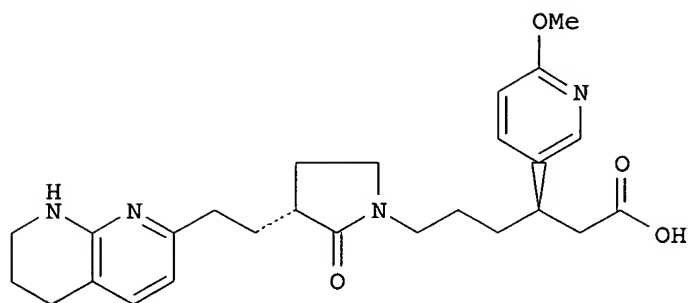
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001024797	A1	20010412	WO 2000-US27033	20000929 <--
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RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
CA 2386030	AA	20010412	CA 2000-2386030	20000929 <--
EP 1229910	A1	20020814	EP 2000-967201	20000929 <--
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL			
JP 2003510360	T2	20030318	JP 2001-527796	20000929
US 6413955	B1	20020702	US 2000-677677	20001002 <--
PRIORITY APPLN. INFO.:			US 1999-157490P	P 19991004
			WO 2000-US27033	W 20000929

OTHER SOURCE(S): MARPAT 134:295810

GI



I



II

AB Compds. of formula I [wherein; W is a 5 or 6 membered monocyclic (aromatic) ring having 1-4 heteroatoms (N, O or S) wherein the ring nitrogen atoms are unsubstituted or substituted with 1 or 2 R₁ groups, or a 9-14 membered polycyclic ring system, wherein the polycyclic ring system has 1-4 heteroatoms (N, O or S) in which the N atoms are substituted as described above; Y is (CH₂)_m, (CH₂)_m-(O, NR₂ or S(O)₀₋₂)-(CH₂)_n, etc., where any CH₂ can be substituted with 1 or 2 R₃ groups, m is 0-3 and n is 0-3; Z is a 5-6 membered heterocyclic system having 1-3 heteroatoms (N, O or S) optionally substituted with one or more R₉ group and when 2 R₉ substituents are on the same C-atom, they are taken together to form a C₃-C₆ cycloalkyl group; R₁ is H, halo, (cyclo)alkyl, cycloheteroalkyl, aryl(alkyl), amino(alkyl), etc.; R₂ is H, alkyl, aryl(alkyl), aminocarbonyl, cycloalkyl, aminoalkyl, etc.; R₃ is H, alkyl, aryl(alkyl), halo, OH, oxo, CF₃, etc.; R₄ and R₅ are H, alkyl, aryl(alkyl), halo, OH, alkylcarbonylamino, etc. or taken together the C-atom to form a CO; R₆ and R₇ are H, alkyl, aryl(alkyl), halo, OH, etc.; R₈ is H, alkyl, aryl(alkyl), alkylcarbonyloxyalkyl, etc.; R₉ is H, alkyl, aryl, halo, OH, etc.;]. Several examples of I are provided. For instance II was synthesized in 14 steps as a single enantiomer. Compds. I are antagonists of the integrin receptors αvβ₃ and/or αvβ₅. Compds. I were found to bind to human αvβ₃ integrin with IC₅₀ values less than 10 nM and to the αvβ₅ integrin receptor with IC₅₀ values less than 100 nM in competitive binding assays. A bone resorption-pit assay demonstrated the ability of compds. I to inhibit osteoclasts (bovine bone slices). Claimed uses for I are for inhibiting bone resorption, treating and preventing osteoporosis, inhibiting vascular restenosis, diabetic retinopathy, macular degeneration, angiogenesis, atherosclerosis, inflammatory arthritis, cancer, and metastatic tumor growth.

IT 204452-42-6P 312263-47-1P

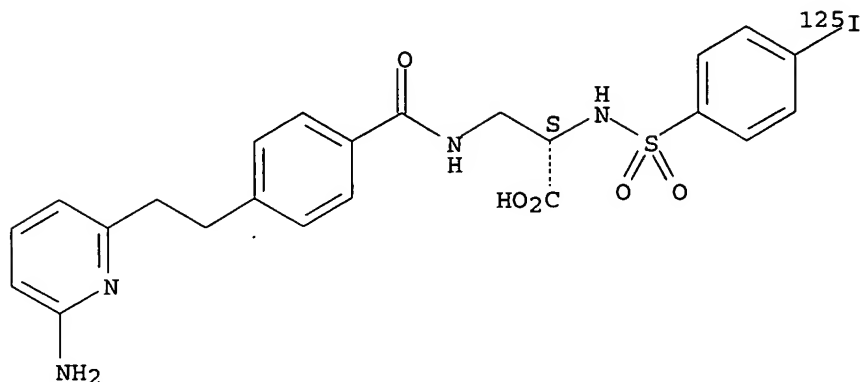
RL: BPR (Biological process); BSU (Biological study, unclassified); BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses) (preparation and use of substituted pyrrolidin-1-yl hexanoic acid derivs. as αvβ₃ and αvβ₅ integrin receptor antagonists)

RN 204452-42-6 HCAPLUS

CN L-Alanine, 3-[[4-[2-(6-amino-2-pyridinyl)ethyl]benzoyl]amino]-N-[[4-(iodo-

125I)phenyl]sulfonyl]- (9CI) (CA INDEX NAME)

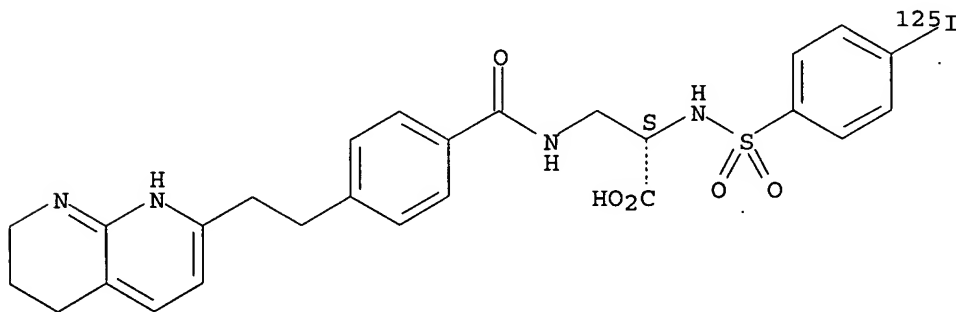
Absolute stereochemistry.



RN 312263-47-1 HCAPLUS

CN L-Alanine, N-[[4-(iodo-125I)phenyl]sulfonyl]-3-[[4-[2-(1,5,6,7-tetrahydro-1,8-naphthyridin-2-yl)ethyl]benzoyl]amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



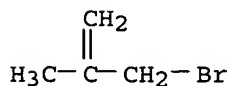
IT 1458-98-6, 3-Bromo-2-methylpropene

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation and use of substituted pyrrolidin-1-yl hexanoic acid derivs. as $\alpha\beta$ 3 and $\alpha\beta$ 5 integrin receptor antagonists)

RN 1458-98-6 HCAPLUS

CN 1-Propene, 3-bromo-2-methyl- (9CI) (CA INDEX NAME)



IT 204452-34-6P 204452-35-7P 204452-36-8P

204452-39-1P 204452-40-4P 312263-44-8P

312263-45-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)

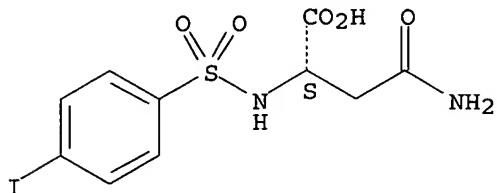
(preparation and use of substituted pyrrolidin-1-yl hexanoic acid derivs. as $\alpha\beta$ 3 and $\alpha\beta$ 5 integrin receptor

antagonists)

RN 204452-34-6 HCAPLUS

CN L-Asparagine, N2-[(4-iodophenyl)sulfonyl]- (9CI) (CA INDEX NAME)

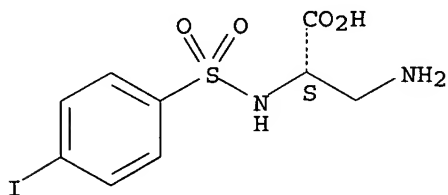
Absolute stereochemistry.



RN 204452-35-7 HCAPLUS

CN L-Alanine, 3-amino-N-[(4-iodophenyl)sulfonyl]- (9CI) (CA INDEX NAME)

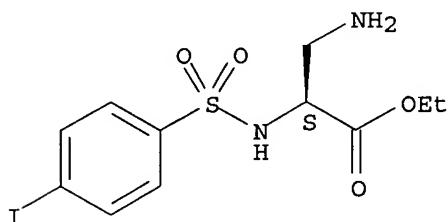
Absolute stereochemistry.



RN 204452-36-8 HCAPLUS

CN L-Alanine, 3-amino-N-[(4-iodophenyl)sulfonyl]-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

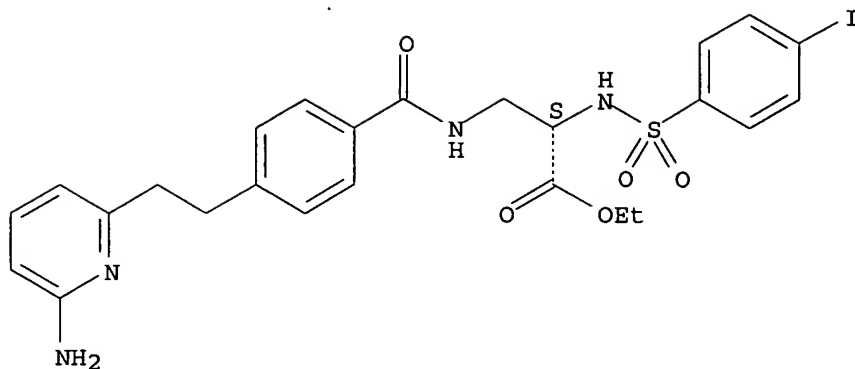


● HCl

RN 204452-39-1 HCAPLUS

CN L-Alanine, 3-[[4-[2-(6-amino-2-pyridinyl)ethyl]benzoyl]amino]-N-[(4-iodophenyl)sulfonyl]-, ethyl ester (9CI) (CA INDEX NAME)

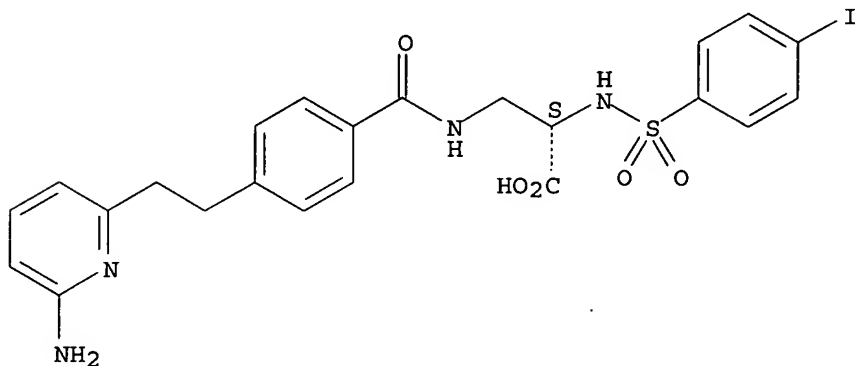
Absolute stereochemistry.



RN 204452-40-4 HCAPLUS

CN L-Alanine, 3-[[4-[2-(6-amino-2-pyridinyl)ethyl]benzoyl]amino]-N-[(4-iodophenyl)sulfonyl]- (9CI) (CA INDEX NAME)

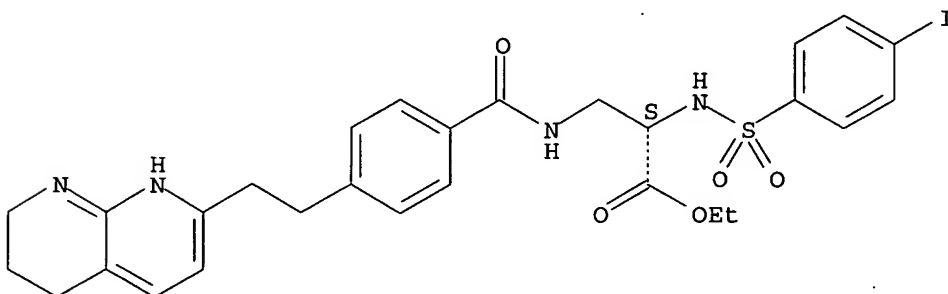
Absolute stereochemistry.



RN 312263-44-8 HCAPLUS

CN L-Alanine, N-[(4-iodophenyl)sulfonyl]-3-[[4-[2-(1,5,6,7-tetrahydro-1,8-naphthyridin-2-yl)ethyl]benzoyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)

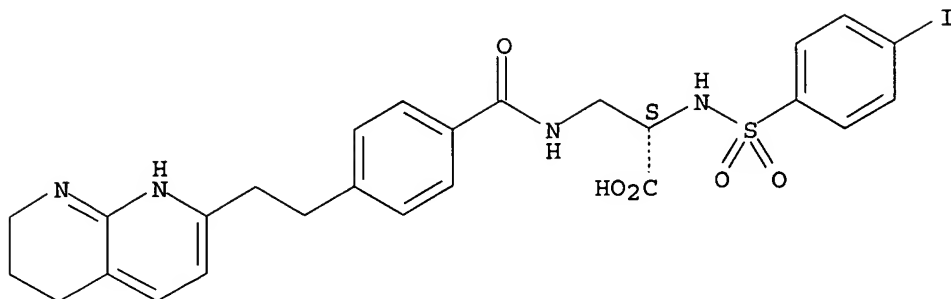
Absolute stereochemistry.



RN 312263-45-9 HCAPLUS

CN L-Alanine, N-[(4-iodophenyl)sulfonyl]-3-[[4-[2-(1,5,6,7-tetrahydro-1,8-naphthyridin-2-yl)ethyl]benzoyl]amino]- (9CI) (CA INDEX NAME)

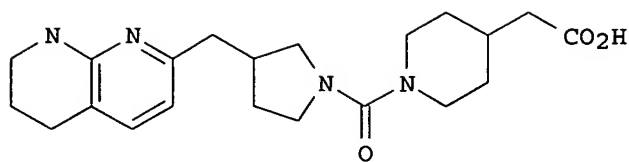
Absolute stereochemistry.



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 6 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2000:911080 HCAPLUS
 DOCUMENT NUMBER: 134:56581
 TITLE: Preparation of piperidinealkanoates as α integrin antagonists
 INVENTOR(S): Duggan, Mark E.; Hartman, George D.; Perkins, James J.; Ihle, Nathan
 PATENT ASSIGNEE(S): Merck & Co., Inc., USA
 SOURCE: PCT Int. Appl., 100 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000078317	A1	20001228	WO 2000-US16849	20000619 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2376077	AA	20001228	CA 2000-2376077	20000619 <--
EP 1194151	A1	20020410	EP 2000-942941	20000619 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
AU 748949	B2	20020613	AU 2000-57490	20000619 <--
JP 2003502373	T2	20030121	JP 2001-504380	20000619
US 6358970	B1	20020319	US 2000-599088	20000621 <--
PRIORITY APPLN. INFO.:			US 1999-140535P	P 19990623
			WO 2000-US16849	W 20000619
OTHER SOURCE(S):			MARPAT 134:56581	
GI				



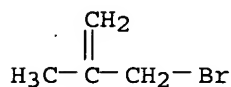
I

AB XYZCODEC02R5 [D = cycloalkylene, heterocyclylene, (hetero)arylene, etc.; E = bond, [(hetero)arylene- or heteroatom-interrupted or -terminated] alkylene, etc.; R5 = H, (ar)alkyl, aryl, etc.; X = (un)substituted amidino, -ureido, -heterocyclyl, -heteroaryl, etc.; Y = [(hetero)arylene- or heteroatom-interrupted or -terminated] alkylene; Z = n,1-azacycloalkylene; n = 2-7] were prepared as integrin receptor antagonists (no data). Thus, 3-(5,6,7,8-tetrahydro[1,8]naphthyridine-2-ylmethyl)pyrrolidine was condensed with Et piperidine-4-acetate hydrochloride (preparation each given) and COCl₂ to give title compound I.

IT 1458-98-6, 2-Bromomethylpropene
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of piperidinealkanoates as α v integrin antagonists)

RN 1458-98-6 HCAPLUS

CN 1-Propene, 3-bromo-2-methyl- (9CI) (CA INDEX NAME)

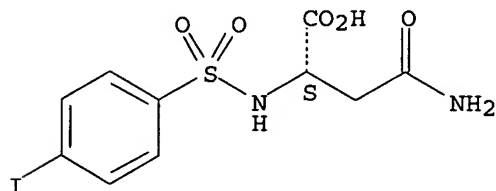


IT 204452-34-6P 204452-35-7P 204452-36-8P
 204452-39-1P 204452-40-4P 312263-44-8P
 312263-45-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP
 (Preparation); RACT (Reactant or reagent)
 (preparation of piperidinealkanoates as α v integrin antagonists)

RN 204452-34-6 HCAPLUS

CN L-Asparagine, N2-[(4-iodophenyl)sulfonyl]- (9CI) (CA INDEX NAME)

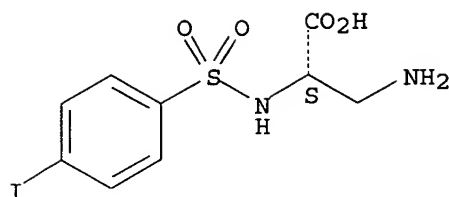
Absolute stereochemistry.



RN 204452-35-7 HCAPLUS

CN L-Alanine, 3-amino-N-[(4-iodophenyl)sulfonyl]- (9CI) (CA INDEX NAME)

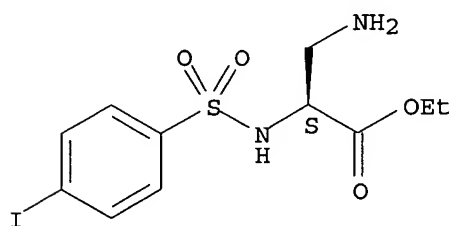
Absolute stereochemistry.



RN 204452-36-8 HCAPLUS

CN L-Alanine, 3-amino-N-[(4-iodophenyl)sulfonyl]-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

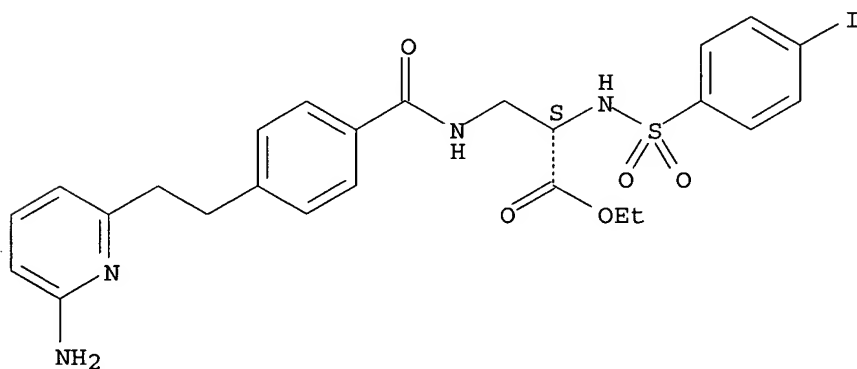


● HCl

RN 204452-39-1 HCAPLUS

CN L-Alanine, 3-[[4-[2-(6-amino-2-pyridinyl)ethyl]benzoyl]amino]-N-[(4-iodophenyl)sulfonyl]-, ethyl ester (9CI) (CA INDEX NAME)

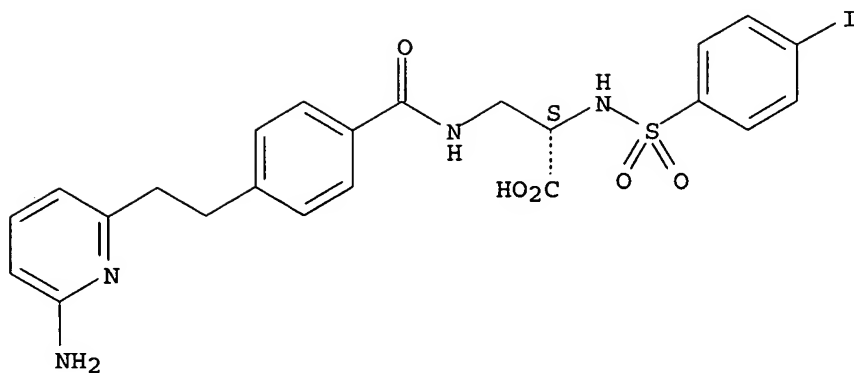
Absolute stereochemistry.



RN 204452-40-4 HCAPLUS

CN L-Alanine, 3-[[4-[2-(6-amino-2-pyridinyl)ethyl]benzoyl]amino]-N-[(4-iodophenyl)sulfonyl]- (9CI) (CA INDEX NAME)

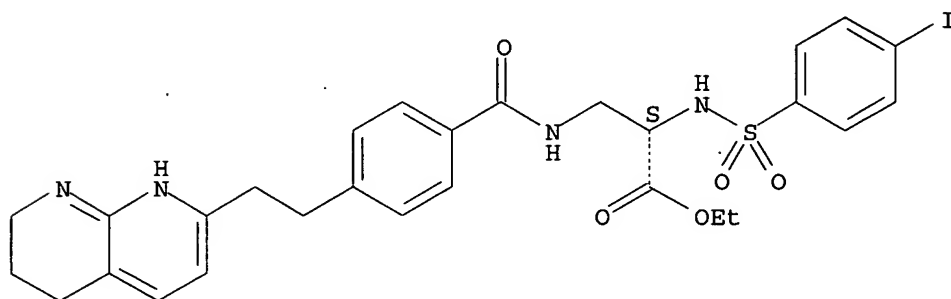
Absolute stereochemistry.



RN 312263-44-8 HCAPLUS

CN L-Alanine, N-[(4-iodophenyl)sulfonyl]-3-[[4-[2-(1,5,6,7-tetrahydro-1,8-naphthyridin-2-yl)ethyl]benzoyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)

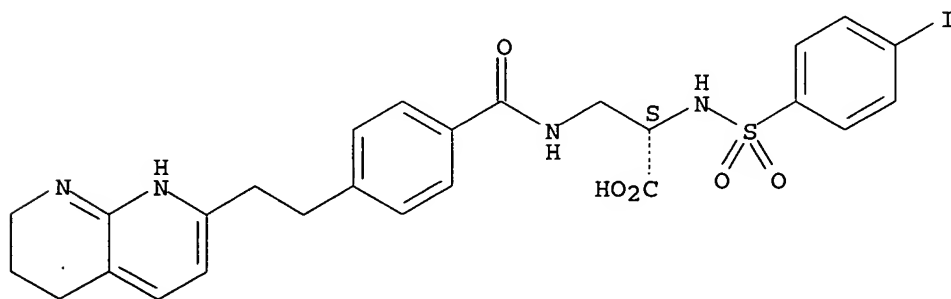
Absolute stereochemistry.



RN 312263-45-9 HCAPLUS

CN L-Alanine, N-[(4-iodophenyl)sulfonyl]-3-[[4-[2-(1,5,6,7-tetrahydro-1,8-naphthyridin-2-yl)ethyl]benzoyl]amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT:

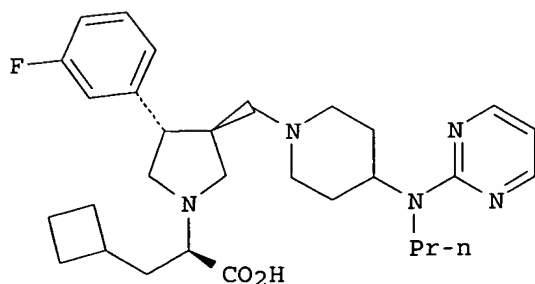
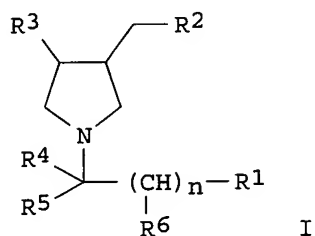
7

THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 7 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2000:725459 HCAPLUS

DOCUMENT NUMBER: 133:296373
 TITLE: Preparation of 3-phenyl-4-(heterocyclymethyl)pyrrolidine modulators of chemokine receptor activity
 INVENTOR(S): Caldwell, Charles; Chapman, Kevin; Hale, Jeffrey; Kim, Dooseop; Lynch, Christopher; Maccoss, Malcolm; Mills, Sander G.; Willoughby, Christopher; Berk, Scott; Kim, Ronald M.
 PATENT ASSIGNEE(S): Merck and Co., Inc., USA
 SOURCE: PCT Int. Appl., 202 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000059498	A1	20001012	WO 2000-US9074	20000405 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6498161	B1	20021224	US 2000-543019	20000404
PRIORITY APPLN. INFO.:			US 1999-128172P	P 19990406
OTHER SOURCE(S):	MARPAT 133:296373			
GI				



AB The title compds. (I) [wherein R1 = CO₂H, NO₂, tetrazolyl, hydroxyisoxazole, SO₂NH(alkyl)R₉, or PO₃H₂; R₉ = H, (cyclo)alkyl, benzyl, or (un)substituted phenyl; R₂ = (un)substituted piperidinyl, tetrahydropyridinyl, piperazinyl, or 1-oxa-8-azaspiro[4.5]decyl; R₃ = (un)substituted Ph or heterocyclyl; R₄ = H or (un)substituted alkyl, (alkyl)cycloalkyl, alkenyl, alkynyl, Ph, alkylphenyl, naphthyl, biphenyl, heterocyclyl, cyclohexenyl, etc.; R₅ and R₆ = independently H or (un)substituted alkyl; or R₄ and R₅ may be joined together to form an (un)substituted C₃-8 cycloalkyl ring; n = 1-3] were prepared as modulators of chemokine receptors, especially the chemokine receptors CCR-5 and/or CCR-3. For example, 2-(R)-((3-(R)-formyl)-4-(S)-3-fluorophenylpyrrolidinyl-1-yl)-3-cyclobutanepropionic acid benzyl ester (preparation given) was treated with Pd/C and dissolved in ClCH₂CH₂Cl. 4-[N-(pyrimid-2-yl)-N-(prop-1-yl)amino]piperidine•HCl (4-step preparation given), NaBH(OAc)₃, and TEA were added, followed by di-tert-butylidicarbonate, to give II. I showed binding activity to the CCR-5 or the CCR-3 receptor, generally with IC₅₀ values of < 1 μM. The present invention is directed to compds. which inhibit the entry of human immunodeficiency virus (HIV) into target cells and are of value in the prevention and treatment of HIV infection and the resulting AIDS syndrome (no data). The invention is further directed to compds. which are useful in the prevention or treatment of certain inflammatory and immunoregulatory disorders, including asthma, allergic rhinitis, dermatitis, conjunctivitis, rheumatoid arthritis, and atherosclerosis (no data).

IT 301224-91-9P 301224-98-6P

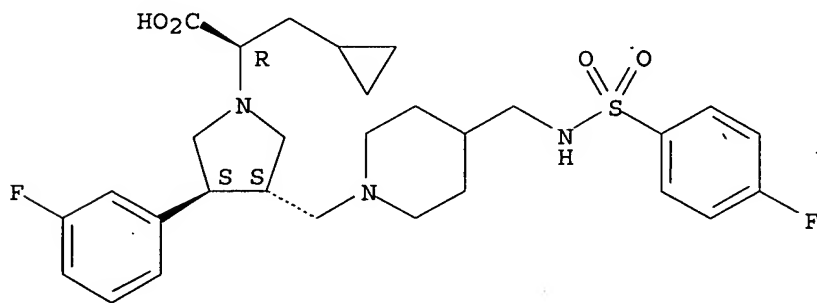
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of 3-phenyl-4-(heterocyclylmethyl)pyrrolidine chemokine receptor modulators by reaction of 3-phenyl-4-formylpyrrolidines with heterocycles)

RN 301224-91-9 HCAPLUS

CN 1-Pyrrolidineacetic acid, α-(cyclopropylmethyl)-3-(3-fluorophenyl)-4-[[4-[[[(4-fluorophenyl)sulfonyl]amino]methyl]-1-piperidinyl]methyl]-, (αR,3S,4S)- (9CI) (CA INDEX NAME)

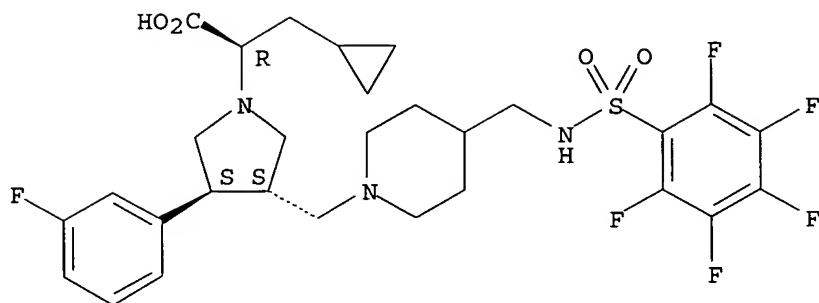
Absolute stereochemistry.



RN 301224-98-6 HCAPLUS

CN 1-Pyrrolidineacetic acid, α-(cyclopropylmethyl)-3-(3-fluorophenyl)-4-[[4-[[[(pentafluorophenyl)sulfonyl]amino]methyl]-1-piperidinyl]methyl]-, (αR,3S,4S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



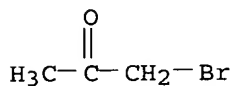
IT 598-31-2, Bromoacetone

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of 3-phenyl-4-(heterocyclylmethyl)pyrrolidine chemokine receptor modulators by reaction of 3-phenyl-4-formylpyrrolidines with heterocycles)

RN 598-31-2 HCAPLUS

CN 2-Propanone, 1-bromo- (8CI, 9CI) (CA INDEX NAME)



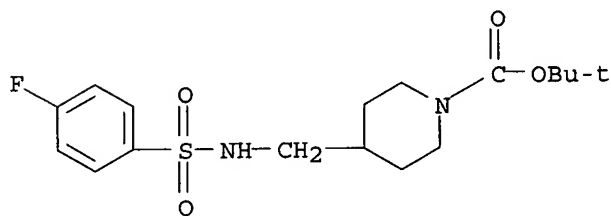
IT 301226-37-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of 3-phenyl-4-(heterocyclylmethyl)pyrrolidine chemokine receptor modulators by reaction of 3-phenyl-4-formylpyrrolidines with heterocycles)

RN 301226-37-9 HCAPLUS

CN 1-Piperidinecarboxylic acid, 4-[[[(4-fluorophenyl)sulfonyl]amino]methyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT:

1

THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 8 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2000:291005 HCAPLUS

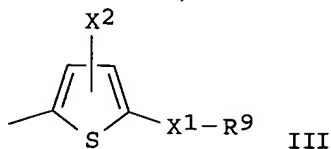
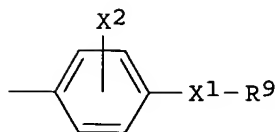
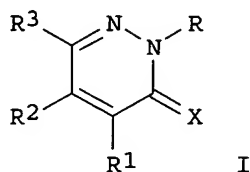
DOCUMENT NUMBER: 132:321867

TITLE: Preparation of arylpyridazinones as prostaglandin endoperoxide H synthase biosynthesis inhibitors

INVENTOR(S): Black, Lawrence A.; Basha, Anwer; Kolasa, Teodozyj; Kort, Michael E.; Liu, Huaqing; Mccarty, Catherine M.; Patel, Meena V.; Rohde, Jeffrey J.; Coghlan, Michael

J.; Stewart, Andrew O.
 PATENT ASSIGNEE(S): Abbott Laboratories, USA
 SOURCE: PCT Int. Appl., 477 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

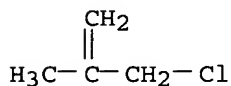
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000024719	A1	20000504	WO 1999-US25234	19991027 <--
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2347982	AA	20000504	CA 1999-2347982	19991027 <--
AU 9965230	A1	20000515	AU 1999-65230	19991027 <--
AU 773237	B2	20040520		
EP 1124804	A1	20010822	EP 1999-953259	19991027 <--
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US 6307047	B1	20011023	US 1999-427768	19991027 <--
BR 9914858	A	20020205	BR 1999-14858	19991027 <--
JP 2003512292	T2	20030402	JP 2000-578289	19991027
ZA 2001003310	A	20020723	ZA 2001-3310	20010423 <--
NO 2001002061	A	20010627	NO 2001-2061	20010426 <--
BG 105523	A	20011231	BG 2001-105523	20010519 <--
PRIORITY APPLN. INFO.:				
			US 1998-179605	A 19981027
			US 1999-261872	A 19990303
			US 1999-298490	A 19990423
			US 1999-427768	A 19991027
			US 1997-56733P	P 19970822
			US 1998-129570	B2 19980805
			US 1998-137457	B2 19980820
			WO 1999-US25234	W 19991027
OTHER SOURCE(S): MARPAT 132:321867				
GI				



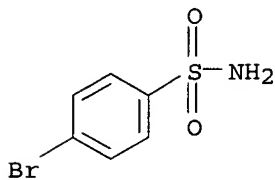
AB The title compds. [I; X = O, S, NR₄, etc.; R₄ = alkyl, alkenyl, cycloalkyl, etc.; R = H, alkyl, alkenyl, etc.; at least one of R₁-R₃ = II-III (wherein X₁ = SO₂, SO(NR₁₀), SO, etc.; R₉ = alkyl, alkenyl, alkynyl, etc.; X₂ = H, halo, alkyl, etc.; R₁₀ = H, alkyl, cycloalkyl); the remaining two of the groups of R₁-R₃ = H, OH, hydroxyalkyl, etc.] which are cyclooxygenase (COX) inhibitors, and in particular, are selective inhibitors of cyclooxygenase-2 (COX-2), and therefore are useful in treating pain, fever, inflammation, rheumatoid arthritis, osteoarthritis, adhesions, and cancer, were prepared. Thus, oxidation of 2-benzyl-4-(4-fluorophenyl)-5-[4-(methylthio)phenyl]-3(2H)-pyridazinone (preparation given) with MeCO₃H in CH₂Cl₂ afforded 86% I [X = O; R = PhCH₂; R₁ = 4-FC₆H₄; R₂ = 4-(MeSO₂)C₆H₄; R₃ = H], which showed 0.014 μM against COX-2. COX-2 is the inducible isoform associated with inflammation, as opposed to the constitutive isoform, cyclooxygenase-1 (COX-1) which is an important "housekeeping" enzyme in many tissues, including the gastrointestinal (GI) tract and the kidneys. The selectivity of the compds. I for COX-2 minimizes the unwanted GI and renal side-effects seen with currently marketed non-steroidal anti-inflammatory drugs (NSAIDs).

IT 563-47-3, 3-Chloro-2-methylpropene 701-34-8, 4-Aminosulfonyl-1-bromobenzene
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reactant; preparation of arylpyridazinones as prostaglandin endoperoxide H synthase biosynthesis inhibitors)

RN 563-47-3 HCAPLUS
 CN 1-Propene, 3-chloro-2-methyl- (9CI) (CA INDEX NAME)



RN 701-34-8 HCAPLUS
 CN Benzenesulfonamide, 4-bromo- (9CI) (CA INDEX NAME)



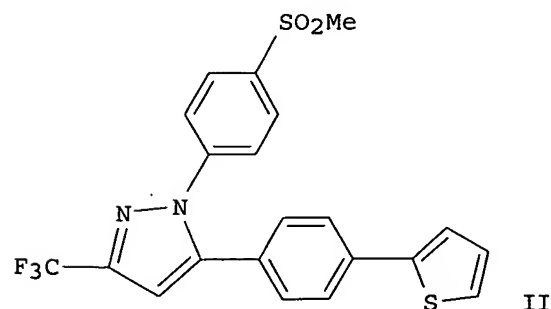
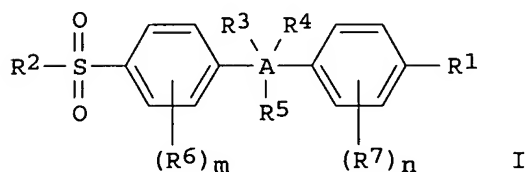
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 9 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1999:795808 HCAPLUS
 DOCUMENT NUMBER: 132:35714
 TITLE: Preparation of heterocyclyl sulfonylbenzene compounds as anti-inflammatory/analgesic agents.
 INVENTOR(S): Ando, Kazuo; Kato, Tomoki; Kawai, Akiyoshi; Nonomura, Tomomi
 PATENT ASSIGNEE(S): Pfizer Pharmaceuticals Inc., USA
 SOURCE: PCT Int. Appl., 236 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent

LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9964415	A1	19991216	WO 1999-IB970	19990531 <--
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9938414	A1	19991230	AU 1999-38414	19990531 <--
EP 1086097	A1	20010328	EP 1999-921043	19990531 <--
EP 1086097	B1	20040519		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
JP 2002517496	T2	20020618	JP 2000-553424	19990531 <--
AT 267196	E	20040615	AT 1999-921043	19990531
PT 1086097	T	20040831	PT 1999-921043	19990531
ES 2220060	T3	20041201	ES 1999-921043	19990531
ZA 9903897	A	20010104	ZA 1999-3897	19990610 <--
US 6294558	B1	20010925	US 1999-446049	19991215 <--
US 2002045654	A1	20020418	US 2001-841348	20010424 <--
US 6608095	B2	20030819		
US 2003225064	A1	20031204	US 2003-465767	20030618
US 6727238	B2	20040427		
US 2004157824	A1	20040812	US 2004-771861	20040203
PRIORITY APPLN. INFO.:			WO 1998-IB912	W 19980611
			WO 1999-IB970	W 19990531
			US 1999-446049	A3 19991215
			US 2001-841348	A3 20010424
			US 2003-465767	A3 20030618

OTHER SOURCE(S): MARPAT 132:35714
 GI



AB This invention provides a compound of formula (I) or its pharmaceutically acceptable salt thereof [wherein A is partially unsatd. or unsatd. five membered heterocyclic, or partially unsatd. or unsatd. five membered carbocyclic, wherein the 4-(sulfonyl)phenyl and the 4-substituted Ph in formula I are attached to ring atoms of Ring A, which are adjacent to each other; R1 is optionally substituted aryl or heteroaryl, with the proviso that when A is pyrazole, R1 is heteroaryl; R2 is C1-4 alkyl, halo-substituted C1-4 alkyl, C1-4 alkylamino, C1-4 dialkylamino or amino; R3, R4 and R5 are independently hydrogen, halo, C1-4 alkyl, halo-substituted C1-4 alkyl or the like; or two of R3, R4 and R5 are taken together with atoms to which they are attached and form a 4-7 membered ring; R6 and R7 are independently hydrogen, halo, C1-4 alkyl, halo-substituted C1-4 alkyl, C1-4 alkoxy, C1-4 alkylthio, C1-4 alkylamino or N,N-di C1-4 alkylamino; and m and n are independently 1, 2, 3 or 4]. This invention also provides a pharmaceutical composition useful for the treatment of a medical condition in which prostaglandins are implicated as pathogens. This invention relates to compound and pharmaceutical compns. for the treatment of cyclooxygenase mediated diseases. These compds. inhibit the biosynthesis of prostaglandins by intervention of the action of the enzyme cyclooxygenase on arachidonic acid, and are therefore useful in the treatment or alleviation of inflammation and other inflammation associated disorders, such as arthritis, in mammals (no data). Thus, To a stirred solution of 1-[4-(Methylsulfonyl)phenyl]-5-(4-bromophenyl)-3-trifluoromethyl-1H-pyrazole (0.27 g) in DME (8 mL) was added 3-thiophenboronic acid (0.09 g), bis(triphenylphosphine)palladium(II)chloride (0.05 g) and saturated NaHCO₃ solution (2 mL) at room temperature under nitrogen.

The mixture was heated at reflux temperature for 16 h, and cooled down to room temperature to give, after purification by flash chromatog. eluting with Et acetate/hexane (1/1), 1-[4-(Methylsulfonyl)phenyl]-5-[4-(2-thienyl)phenyl]-3-trifluoromethyl-1H-pyrazole (II) in 64 % yield.

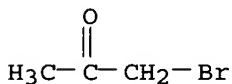
IT 598-31-2, Bromoacetone

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of heterocyclyl sulfonylbenzene compds. as cyclooxygenase inhibitors, prostaglandin biosynthesis inhibitors, anti-inflammatory, and analgesic agents)

RN 598-31-2 HCAPLUS

CN 2-Propanone, 1-bromo- (8CI, 9CI) (CA INDEX NAME)



IT 108966-71-8P, 3,4-Difluorobenzenesulfonamide 146533-46-2P

, 3-Chloro-4-fluorobenzenesulfonamide 252562-59-7P

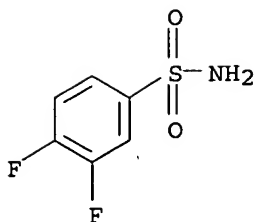
RL: RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)

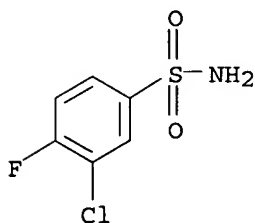
(preparation of heterocyclyl sulfonylbenzene compds. as cyclooxygenase inhibitors, prostaglandin biosynthesis inhibitors, anti-inflammatory, and analgesic agents)

RN 108966-71-8 HCAPLUS

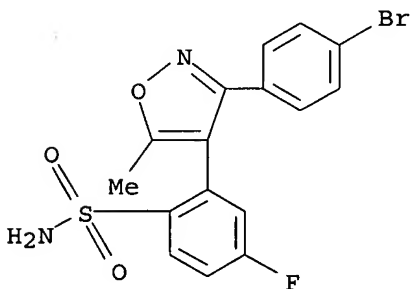
CN Benzenesulfonamide, 3,4-difluoro- (9CI) (CA INDEX NAME)



RN 146533-46-2 HCAPLUS
CN Benzenesulfonamide, 3-chloro-4-fluoro- (9CI) (CA INDEX NAME)



RN 252562-59-7 HCAPLUS
CN Benzenesulfonamide, 2-[3-(4-bromophenyl)-5-methyl-4-isoxazolyl]-4-fluoro- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 10 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:753211 HCAPLUS

DOCUMENT NUMBER: 132:3319

TITLE: Preparation of novel 4-phenylpiperidines for the treatment of pruritic dermatoses

INVENTOR(S): Armer, Richard Edward; Dutton, Christopher James; Gethin, David Morris; Gibson, Stephen Paul; Smith, Julian Duncan; Tommasini, Ivan

PATENT ASSIGNEE(S): Pfizer Inc., USA; Pfizer Limited

SOURCE: PCT Int. Appl., 171 pp.

CODEN: PIXXD2

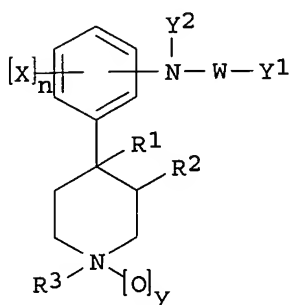
DOCUMENT TYPE: Patent

LANGUAGE: English

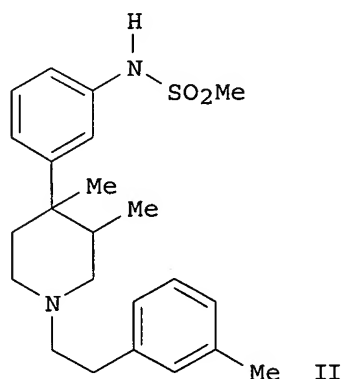
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9959971	A1	19991125	WO 1999-IB886	19990517 <--
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2332538	AA	19991125	CA 1999-2332538	19990517 <--
CA 2332538	C	19991125		
AU 9935312	A1	19991206	AU 1999-35312	19990517 <--
ZA 9903364	A	20001201	ZA 1999-3364	19990517 <--
BR 9910609	A	20010109	BR 1999-10609	19990517 <--
EP 1077940	A1	20010228	EP 1999-917038	19990517 <--
EP 1077940	B1	20040714		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
JP 2002515486	T2	20020528	JP 2000-549590	19990517 <--
AT 271038	E	20040715	AT 1999-917038	19990517
ES 2230846	T3	20050501	ES 1999-917038	19990517
US 2003078282	A1	20030424	US 2000-646255	20000511
US 6610711	B2	20030826		
PRIORITY APPLN. INFO.:			GB 1998-10671	A 19980518
			WO 1999-IB886	W 19990517
OTHER SOURCE(S):		MARPAT 132:3319		
GI				



I



II

AB The title compds. [I; R1, R2 = H, alkyl; R3 = alkyl, alkenyl, alkynyl; W = SO2, CO, P(Y1):O, P(Y1):S; X = H, halo, alkyl, etc.; Y1 = alkyl, NH2, aryl, etc.; Y2 = H, alkyl, alkenyl, etc.; n = 0-2; yr = 0-1] and their pharmaceutically and veterinarily acceptable salts, useful for having utility in the treatment of pruritic dermatoses including allergic dermatitis and atopy in animals and humans, were prepared and formulated. E.g., synthesis of trans-3,4-dimethylpiperidine II which was found to display anti-pruritic activity when tested for its ability to inhibit the hind leg scratching behavior induced in male Wistar rats by the administration of the known pruritogenic agent, was given.

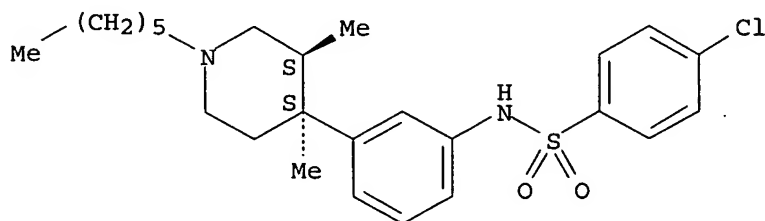
IT 250730-87-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of novel 4-phenylpiperidines for the treatment of pruritic dermatoses)

RN 250730-87-1 HCAPLUS

CN Benzenesulfonamide, 4-chloro-N-[3-[(3R,4R)-1-hexyl-3,4-dimethyl-4-piperidinyl]phenyl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

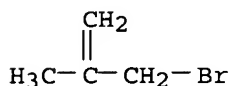


IT 1458-98-6 172376-41-9

RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of novel 4-phenylpiperidines for the treatment of pruritic dermatoses)

RN 1458-98-6 HCAPLUS

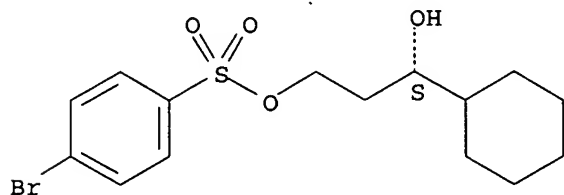
CN 1-Propene, 3-bromo-2-methyl- (9CI) (CA INDEX NAME)



RN 172376-41-9 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, (3S)-3-cyclohexyl-3-hydroxypropyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

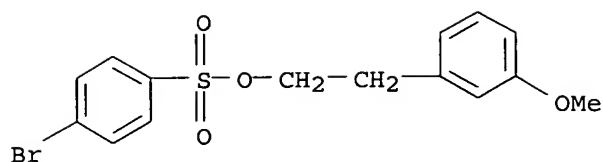


IT 32376-91-3P 93719-30-3P 250732-61-7P
250732-63-9P 250732-66-2P 250732-67-3P
250732-69-5P 250732-71-9P

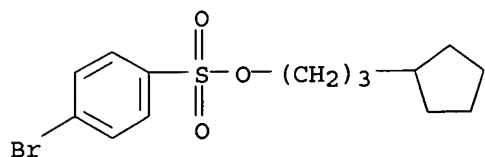
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of novel 4-phenylpiperidines for the treatment of pruritic dermatoses)

RN 32376-91-3 HCAPLUS

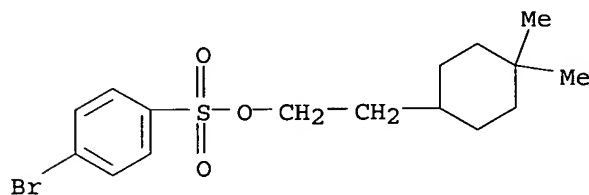
CN Benzenesulfonic acid, 4-bromo-, 2-(3-methoxyphenyl)ethyl ester (9CI) (CA INDEX NAME)



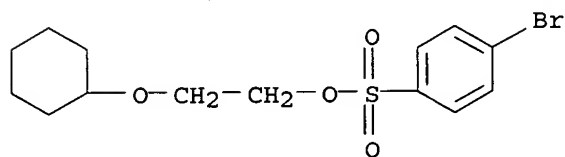
RN 93719-30-3 HCAPLUS
CN Benzenesulfonic acid, 4-bromo-, 3-cyclopentylpropyl ester (9CI) (CA INDEX NAME)



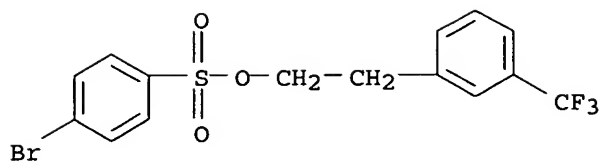
RN 250732-61-7 HCAPLUS
CN Benzenesulfonic acid, 4-bromo-, 2-(4,4-dimethylcyclohexyl)ethyl ester (9CI) (CA INDEX NAME)



RN 250732-63-9 HCAPLUS
CN Benzenesulfonic acid, 4-bromo-, 2-(cyclohexyloxy)ethyl ester (9CI) (CA INDEX NAME)

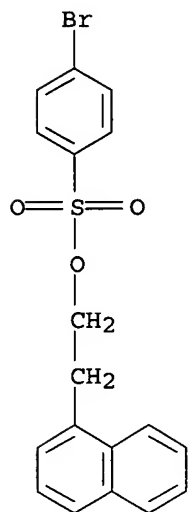


RN 250732-66-2 HCAPLUS
CN Benzenesulfonic acid, 4-bromo-, 2-[3-(trifluoromethyl)phenyl]ethyl ester (9CI) (CA INDEX NAME)



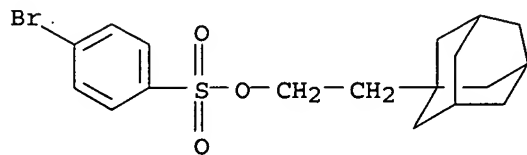
RN 250732-67-3 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, 2-(1-naphthalenyl)ethyl ester (9CI) (CA INDEX NAME)



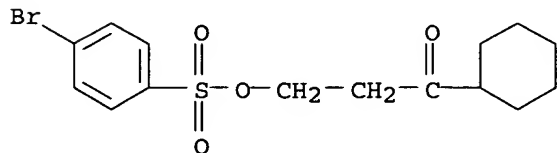
RN 250732-69-5 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, 2-tricyclo[3.3.1.1^{3,7}]dec-1-ylethyl ester (9CI) (CA INDEX NAME)



RN 250732-71-9 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, 3-cyclohexyl-3-oxopropyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 11 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:244638 HCAPLUS

DOCUMENT NUMBER: 130:311813

TITLE: Preparation of piperazinyliisoquinolines and analogs as
serotonin antagonists

INVENTOR(S): Ueno, Kohshi; Sasaki, Atsushi; Kawano, Koki; Okabe,
Tadashi; Kitazawa, Noritaka; Takahashi, Keiko;
Yamamoto, Noboru; Suzuki, Yuichi; Matsunaga, Manabu;
Kubota, Atsuhiko

PATENT ASSIGNEE(S): Eisai Co., Ltd., Japan

SOURCE: PCT Int. Appl., 740 pp.

CODEN: PIXXD2

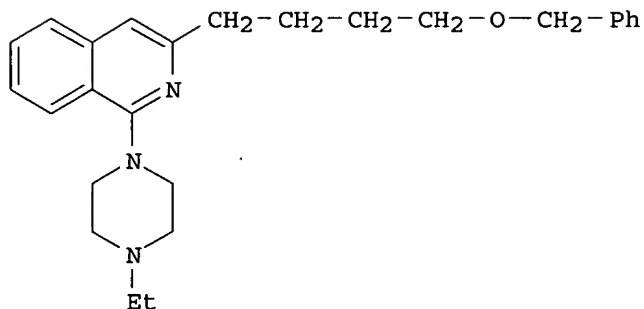
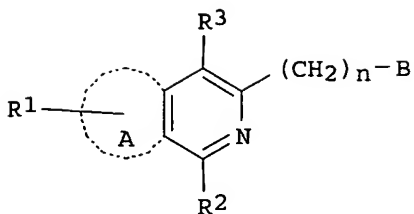
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9918077	A1	19990415	WO 1998-JP4465	19981002 <--
W: US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
JP 2000053647	A2	20000222	JP 1998-281752	19981002 <--
EP 1020445	A1	20000719	EP 1998-945593	19981002 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
US 6340759	B1	20020122	US 2000-509778	20000331 <--
US 2002013460	A1	20020131	US 2001-852850	20010511 <--
US 6790844	B2	20040914		
US 2004204421	A1	20041014	US 2004-796673	20040310
US 6875761	B2	20050405		
PRIORITY APPLN. INFO.:			JP 1997-284290	A 19971002
			JP 1998-153416	A 19980602
			WO 1998-JP4465	W 19981002
			US 2000-509778	A3 20000331
			US 2001-852850	A3 20010511
OTHER SOURCE(S):			MARPAT 130:311813	
GI				



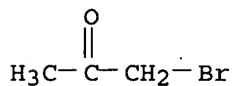
AB The title compds. I [ring A = benzene, pyridine, thiophene or furan ring; B = (un)substituted aryl, etc.; R1 = H, halo, etc.; R2 = 4-morpholinyl, etc.; R3 = H, halo, etc.; n = 0, or 1 - 6] are prepared I are central muscle relaxing drugs for treating, ameliorating or preventing spastic paralysis or ameliorating myotonia. In an in vitro test for 5HT1 receptor antagonism, the title compound II showed the Ki value of 21.2 nM.

IT 598-31-2, 1-Bromo-2-propanone 701-34-8
223557-22-0

RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of piperazinyloisoquinolines and analogs as serotonin antagonists)

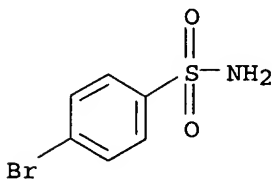
RN 598-31-2 HCAPLUS

CN 2-Propanone, 1-bromo- (8CI, 9CI) (CA INDEX NAME)



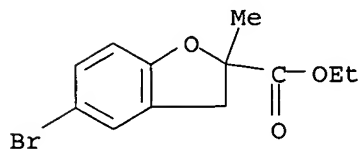
RN 701-34-8 HCAPLUS

CN Benzenesulfonamide, 4-bromo- (9CI) (CA INDEX NAME)



RN 223557-22-0 HCAPLUS

CN 2-Benzofurancarboxylic acid, 5-bromo-2,3-dihydro-2-methyl-, ethyl ester
(9CI) (CA INDEX NAME)



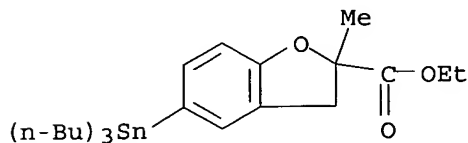
IT 223555-45-1P 223555-46-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); RACT (Reactant or reagent)

(preparation of piperazinyliisoquinolines and analogs as serotonin
antagonists)

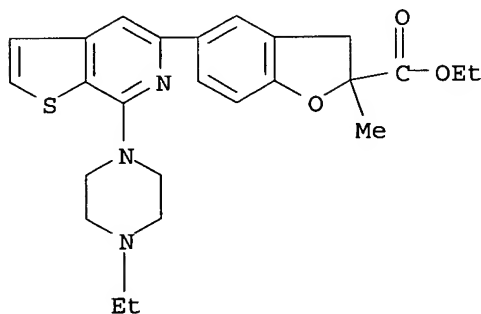
RN 223555-45-1 HCAPLUS

CN 2-Benzofurancarboxylic acid, 2,3-dihydro-2-methyl-5-(tributylstannyl)-,
ethyl ester (9CI) (CA INDEX NAME)



RN 223555-46-2 HCAPLUS

CN 2-Benzofurancarboxylic acid, 5-[7-(4-ethyl-1-piperazinyl)thieno[2,3-
c]pyridin-5-yl]-2,3-dihydro-2-methyl-, ethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 12 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:166604 HCAPLUS

DOCUMENT NUMBER: 130:223284

TITLE: Preparation of arylpyridazinones as prostaglandin
endoperoxide H synthase biosynthesis inhibitors

INVENTOR(S): Black, Lawrence A.; Basha, Anwer; Kolasa, Teodozyj;
Kort, Michael E.; Liu, Huaqing; McCarty, Catherine M.;
Patel, Meena V.; Rohde, Jeffrey J.

PATENT ASSIGNEE(S): Abbott Laboratories, USA

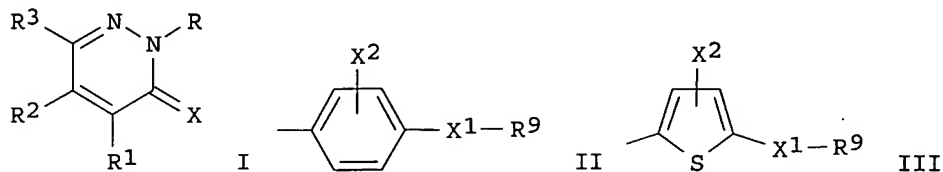
SOURCE: PCT Int. Appl., 307 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9910331	A1	19990304	WO 1998-US16479	19980810 <--
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2299300	AA	19990304	CA 1998-2299300	19980810 <--
AU 9886976	A1	19990316	AU 1998-86976	19980810 <--
AU 741317	B2	20011129		
EP 1007515	A1	20000614	EP 1998-938451	19980810 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO				
BR 9812127	A	20000718	BR 1998-12127	19980810 <--
TR 200000478	T2	20020422	TR 2000-200000478	19980810 <--
JP 2003516925	T2	20030520	JP 2000-507660	19980810
ZA 9807555	A	19990223	ZA 1998-7555	19980820 <--
NO 2000000863	A	20000222	NO 2000-863	20000222 <--
NO 315423	B1	20030901		
MX 200001850	A	20001030	MX 2000-1850	20000222 <--
BG 104241	A	20001031	BG 2000-104241	20000315 <--
PRIORITY APPLN. INFO.:			US 1997-917023	A 19970822
			US 1998-129570	A 19980805
			WO 1998-US16479	W 19980810

OTHER SOURCE(S): MARPAT 130:223284
 GI



AB The title compds. [I; X = O, S, NR₄, etc.; R₄ = alkyl, alkenyl, cycloalkyl, etc.; R = H, alkyl, alkenyl, etc.; at least one of R₁-R₃ = II-III (wherein X₁ = SO₂, SO(NR₁₀), SO, etc.; R₉ = alkyl, alkenyl, alkynyl, etc.; X₂ = H, halo, alkyl, etc.; R₁₀ = H, alkyl, cycloalkyl); the remaining two of the groups of R₁-R₃ = H, OH, hydroxyalkyl, etc.] which are cyclooxygenase (COX) inhibitors, and in particular, are selective inhibitors of cyclooxygenase-2 (COX-2), and therefore are useful in treating pain, fever, inflammation, rheumatoid arthritis, osteoarthritis, adhesions, and cancer, were prepared. Thus, oxidation of 2-benzyl-4-(4-fluorophenyl)-5-[4-(methylthio)phenyl]-3(2H)-pyridazinone (preparation given) with MeCO₃H in CH₂Cl₂ afforded 86% I [X = O; R = PhCH₂; R₁ = 4-FC₆H₄; R₂ = 4-(MeSO₂)C₆H₄; R₃ = H] which showed 0.014 μM against COX-2. COX-2 is the inducible isoform associated with inflammation, as opposed to the constitutive isoform, cyclooxygenase-1 (COX-1) which is an important

"housekeeping" enzyme in many tissues, including the gastrointestinal (GI) tract and the kidneys. The selectivity of the compds. I for COX-2 minimizes the unwanted GI and renal side-effects seen with currently marketed non-steroidal anti-inflammatory drugs (NSAIDs).

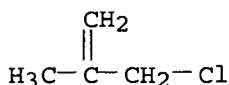
IT 563-47-3, 3-Chloro-2-methylpropene 701-34-8,
4-Aminosulfonyl-1-bromobenzene

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of arylpyridazinones as prostaglandin endoperoxide H synthase biosynthesis inhibitors)

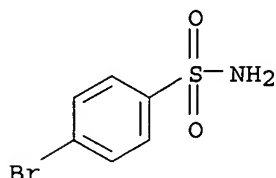
RN 563-47-3 HCAPLUS

CN 1-Propene, 3-chloro-2-methyl- (9CI) (CA INDEX NAME)



RN 701-34-8 HCAPLUS

CN Benzenesulfonamide, 4-bromo- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 13 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1998:686864 HCAPLUS

DOCUMENT NUMBER: 130:25035

TITLE: Fluorinated heterocycles: I. New 1,4-benzothiazines and 1,2,4-benzothiadiazines

AUTHOR(S): Vysokov, V. I.; Charushin, V. N.; Chupakhin, O. N.; Pashkevich, T. K.

CORPORATE SOURCE: Ural State Technical University, Yekaterinburg, 620002, Russia

SOURCE: Russian Journal of Organic Chemistry (Translation of Zhurnal Organicheskoi Khimii) (1998), 34(3), 428-433

CODEN: RJOCEQ; ISSN: 1070-4280

PUBLISHER: MAIK Nauka/Interperiodica Publishing

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Chlorosulfonation of 3,4-difluoroaniline gave 2-amino-4,5-difluorobenzenesulfonyl chloride which was converted into the corresponding sulfonamide and sulfinic acid. The latter were used to synthesize various fluorine-containing 1,4-benzothiazine and 1,2,4-benzothiadiazine 1,1-dioxides.

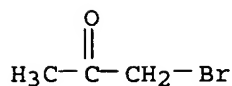
IT 598-31-2, Bromoacetone

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of fluoro-substituted benzothiazine and benzothiadiazine dioxides)

RN 598-31-2 HCAPLUS

CN 2-Propanone, 1-bromo- (8CI, 9CI) (CA INDEX NAME)



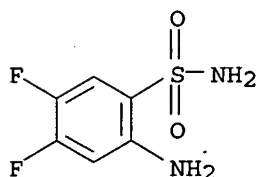
IT 1993-10-8P 152821-61-9P 216252-48-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of fluoro-substituted benzothiazine and benzothiadiazine dioxides)

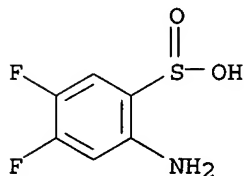
RN 1993-10-8 HCAPLUS

CN Benzenesulfonamide, 2-amino-4,5-difluoro- (7CI, 8CI, 9CI) (CA INDEX NAME)



RN 152821-61-9 HCAPLUS

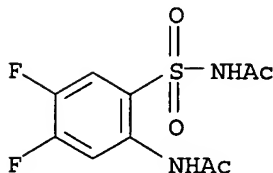
CN Benzenesulfinic acid, 2-amino-4,5-difluoro-, monosodium salt (9CI) (CA INDEX NAME)



● Na

RN 216252-48-1 HCAPLUS

CN Acetamide, N-[[2-(acetylamino)-4,5-difluorophenyl]sulfonyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT:

12

THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 14 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1998:364966 HCAPLUS

DOCUMENT NUMBER: 129:27890

TITLE: Preparation of benzopyran derivatives and pharmaceutical compositions containing them

INVENTOR(S): Muller, Timothee; Moulin, Claudie; Duflos, Muriel; Robert-Piessard, Sylvie; Le Baut, Guillaume; Tonnerre, Alain; Caignard, Daniel-Henri; Manechez, Dominique; Renard, Pierre

PATENT ASSIGNEE(S): Adir Et Compagnie, Fr.

SOURCE: Eur. Pat. Appl., 24 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

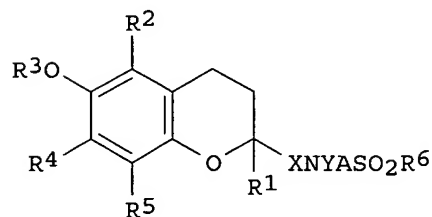
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 844245	A1	19980527	EP 1997-402821	19971124 <--
EP 844245	B1	20010509		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
FR 2756284	A1	19980529	FR 1996-14470	19961126 <--
FR 2756284	B1	20000428		
AT 201020	E	20010515	AT 1997-402821	19971124 <--
ES 2157539	T3	20010816	ES 1997-402821	19971124 <--
PT 844245	T	20010928	PT 1997-402821	19971124 <--
CA 2222467	AA	19980526	CA 1997-2222467	19971125 <--
CA 2222467	C	20020528		
NO 9705402	A	19980527	NO 1997-5402	19971125 <--
CN 1183412	A	19980603	CN 1997-122919	19971125 <--
JP 10158260	A2	19980616	JP 1997-321858	19971125 <--
US 5889045	A	19990330	US 1997-977793	19971125 <--
BR 9705064	A	19990720	BR 1997-5064	19971125 <--
AU 9745383	A1	19980528	AU 1997-45383	19971126 <--
AU 720479	B2	20000601		
ZA 9710649	A	19980612	ZA 1997-10649	19971126 <--
GR 3036242	T3	20011031	GR 2001-401091	20010719 <--
			FR 1996-14470	A 19961126

PRIORITY APPLN. INFO.:

OTHER SOURCE(S): MARPAT 129:27890

GI



AB The title compds. I [R1 = alkyl, R2, R4, R5 = H, alkyl, R3 = H, alkyl, acyl, carboxyalkyl, alkoxyacetyl, etc.; X = CO, CH2; Y = H, alkyl, aryl; A = bond, alkylphenyl; R6 = isocyanato, amino group, substituted urea,

etc.] were prepared and their pharmacol. activity determined (no data). E.g., reaction of 6-acetoxy-3,4-dihydro-2,5,7,8-tetramethyl-1(2H)-benzopyran-2-carboxylic acid with MeSO₂NH₂ gave N-(6-acetoxy-3,4-dihydro-2,5,7,8-tetramethyl-1(2H)-benzopyran-2-carbonyl)methanesulfonamide.

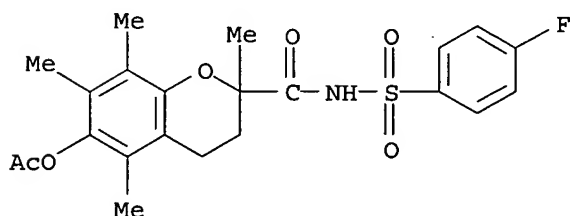
IT 208039-12-7P 208039-13-8P 208039-14-9P

208039-37-6P 208039-57-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation and pharmacol. activity of benzopyran derivs.)

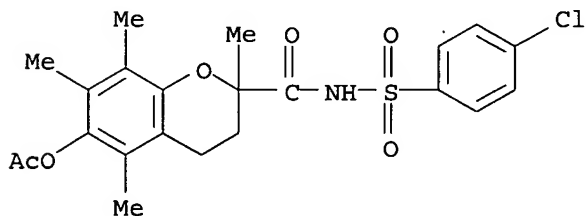
RN 208039-12-7 HCAPLUS

CN 2H-1-Benzopyran-2-carboxamide, 6-(acetyloxy)-N-[(4-fluorophenyl)sulfonyl]-3,4-dihydro-2,5,7,8-tetramethyl- (9CI) (CA INDEX NAME)



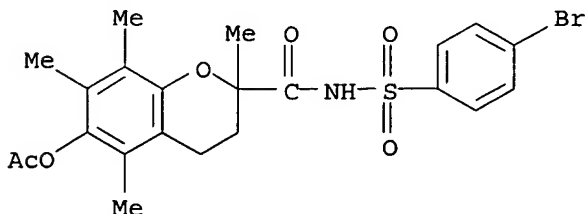
RN 208039-13-8 HCAPLUS

CN 2H-1-Benzopyran-2-carboxamide, 6-(acetyloxy)-N-[(4-chlorophenyl)sulfonyl]-3,4-dihydro-2,5,7,8-tetramethyl- (9CI) (CA INDEX NAME)



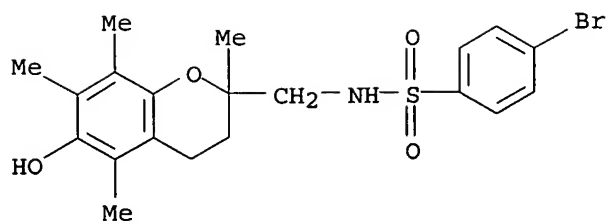
RN 208039-14-9 HCAPLUS

CN 2H-1-Benzopyran-2-carboxamide, 6-(acetyloxy)-N-[(4-bromophenyl)sulfonyl]-3,4-dihydro-2,5,7,8-tetramethyl- (9CI) (CA INDEX NAME)



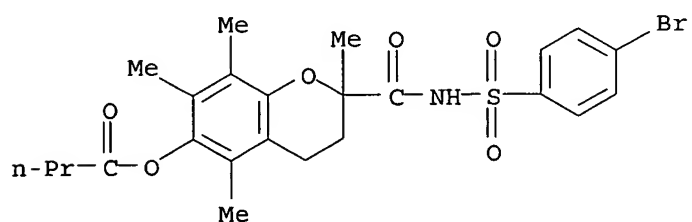
RN 208039-37-6 HCAPLUS

CN Benzenesulfonamide, 4-bromo-N-[(3,4-dihydro-6-hydroxy-2,5,7,8-tetramethyl-2H-1-benzopyran-2-yl)methyl]- (9CI) (CA INDEX NAME)



RN 208039-57-0 HCAPLUS

CN Butanoic acid, 2-[[[(4-bromophenyl)sulfonyl]amino]carbonyl]-3,4-dihydro-2,5,7,8-tetramethyl-2H-1-benzopyran-6-yl ester (9CI) (CA INDEX NAME)



IT 208039-29-6P 208039-30-9P 208039-31-0P

208039-36-5P 208039-39-8P 208039-46-7P

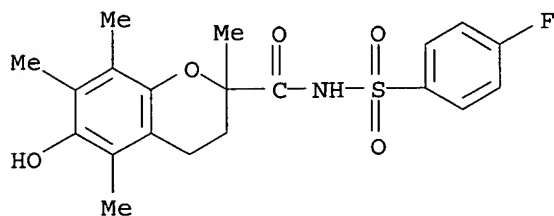
208039-47-8P 208039-49-0P 208039-50-3P

208039-51-4P 208039-56-9P 208039-62-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation and pharmacol. activity of benzopyran derivs.)

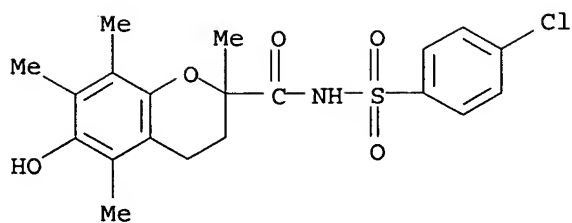
RN 208039-29-6 HCAPLUS

CN 2H-1-Benzopyran-2-carboxamide, N-[(4-fluorophenyl)sulfonyl]-3,4-dihydro-6-hydroxy-2,5,7,8-tetramethyl- (9CI) (CA INDEX NAME)



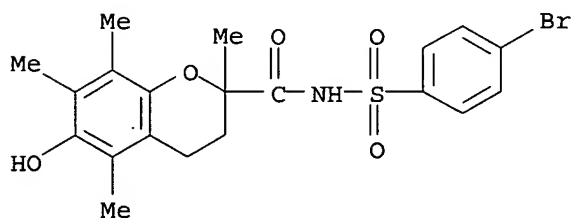
RN 208039-30-9 HCAPLUS

CN 2H-1-Benzopyran-2-carboxamide, N-[(4-chlorophenyl)sulfonyl]-3,4-dihydro-6-hydroxy-2,5,7,8-tetramethyl- (9CI) (CA INDEX NAME)



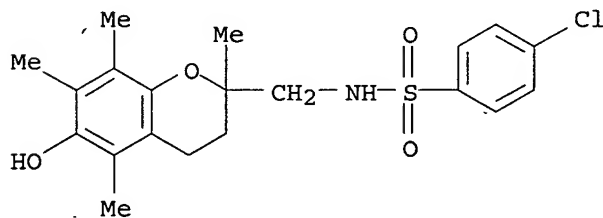
RN 208039-31-0 HCAPLUS

CN 2H-1-Benzopyran-2-carboxamide, N-[(4-bromophenyl)sulfonyl]-3,4-dihydro-6-hydroxy-2,5,7,8-tetramethyl- (9CI) (CA INDEX NAME)



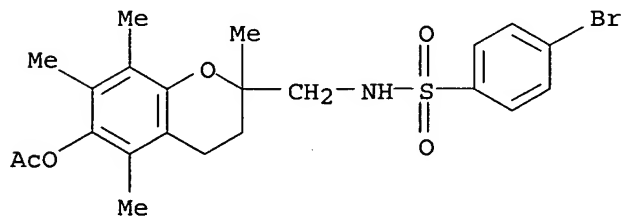
RN 208039-36-5 HCAPLUS

CN Benzenesulfonamide, 4-chloro-N-[(3,4-dihydro-6-hydroxy-2,5,7,8-tetramethyl-2H-1-benzopyran-2-yl)methyl]- (9CI) (CA INDEX NAME)



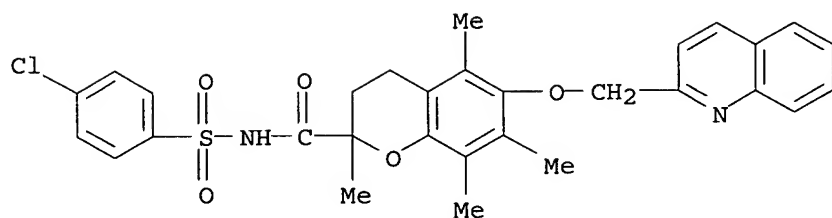
RN 208039-39-8 HCAPLUS

CN Benzenesulfonamide, N-[[6-(acetyloxy)-3,4-dihydro-2,5,7,8-tetramethyl-2H-1-benzopyran-2-yl)methyl]-4-bromo- (9CI) (CA INDEX NAME)



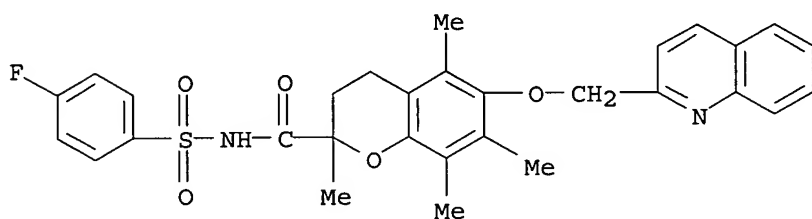
RN 208039-46-7 HCAPLUS

CN 2H-1-Benzopyran-2-carboxamide, N-[(4-chlorophenyl)sulfonyl]-3,4-dihydro-2,5,7,8-tetramethyl-6-(2-quinolinylmethoxy)- (9CI) (CA INDEX NAME)



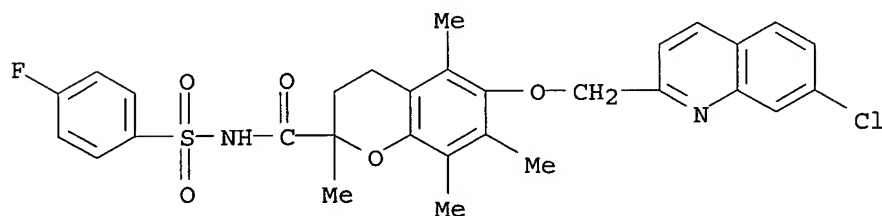
RN 208039-47-8 HCAPLUS

CN 2H-1-Benzopyran-2-carboxamide, N-[(4-fluorophenyl)sulfonyl]-3,4-dihydro-2,5,7,8-tetramethyl-6-(2-quinolinylmethoxy)- (9CI) (CA INDEX NAME)



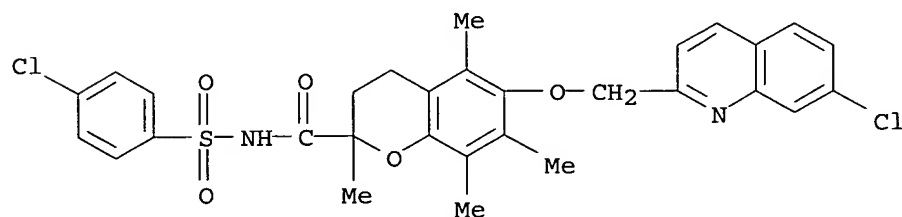
RN 208039-49-0 HCAPLUS

CN 2H-1-Benzopyran-2-carboxamide, 6-[(7-chloro-2-quinolinyl)methoxy]-N-[(4-fluorophenyl)sulfonyl]-3,4-dihydro-2,5,7,8-tetramethyl- (9CI) (CA INDEX NAME)



RN 208039-50-3 HCAPLUS

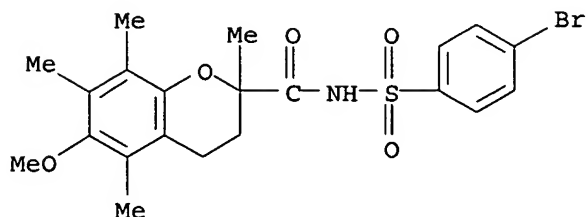
CN 2H-1-Benzopyran-2-carboxamide, N-[(4-chlorophenyl)sulfonyl]-6-[(7-chloro-2-quinolinyl)methoxy]-3,4-dihydro-2,5,7,8-tetramethyl- (9CI) (CA INDEX NAME)



RN 208039-51-4 HCAPLUS

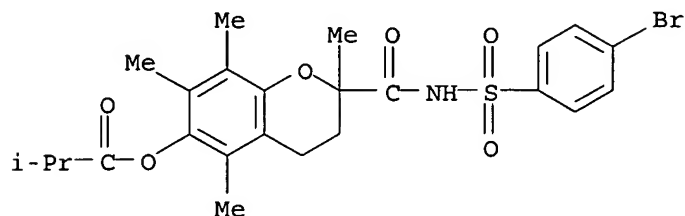
CN 2H-1-Benzopyran-2-carboxamide, N-[(4-bromophenyl)sulfonyl]-3,4-dihydro-6-

methoxy-2,5,7,8-tetramethyl- (9CI) (CA INDEX NAME)



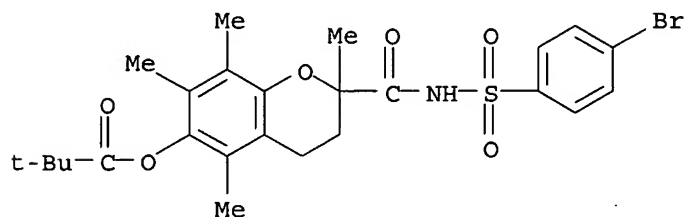
RN 208039-56-9 HCAPLUS

CN Propanoic acid, 2-methyl-, 2-[[[(4-bromophenyl)sulfonyl]amino]carbonyl]-3,4-dihydro-2,5,7,8-tetramethyl-2H-1-benzopyran-6-yl ester (9CI) (CA INDEX NAME)



RN 208039-62-7 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2-[[[(4-bromophenyl)sulfonyl]amino]carbonyl]-3,4-dihydro-2,5,7,8-tetramethyl-2H-1-benzopyran-6-yl ester (9CI) (CA INDEX NAME)

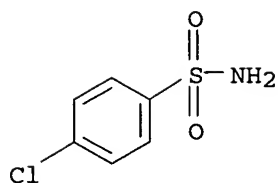


IT 98-64-6, 4-Chlorobenzenesulfonamide 402-46-0,
4-Fluorobenzenesulfonamide 701-34-8, 4-Bromobenzenesulfonamide
106461-96-5 122005-20-3 208039-84-3
208039-86-5 208039-88-7 208039-90-1
208039-92-3 208039-94-5 208039-96-7

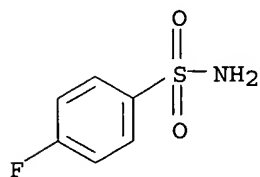
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation and pharmacol. activity of benzopyran derivs.)

RN 98-64-6 HCAPLUS

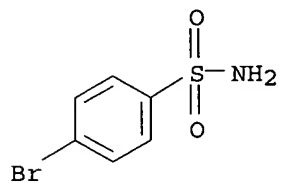
CN Benzenesulfonamide, 4-chloro- (9CI) (CA INDEX NAME)



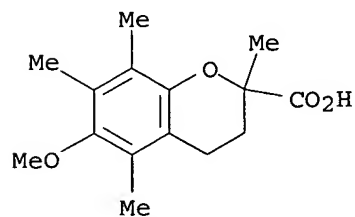
RN 402-46-0 HCAPLUS
 CN Benzenesulfonamide, 4-fluoro- (9CI) (CA INDEX NAME)



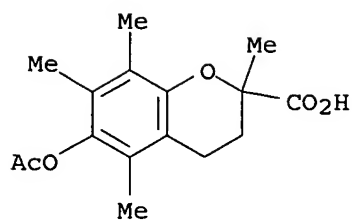
RN 701-34-8 HCAPLUS
 CN Benzenesulfonamide, 4-bromo- (9CI) (CA INDEX NAME)



RN 106461-96-5 HCAPLUS
 CN 2H-1-Benzopyran-2-carboxylic acid, 3,4-dihydro-6-methoxy-2,5,7,8-tetramethyl- (9CI) (CA INDEX NAME)

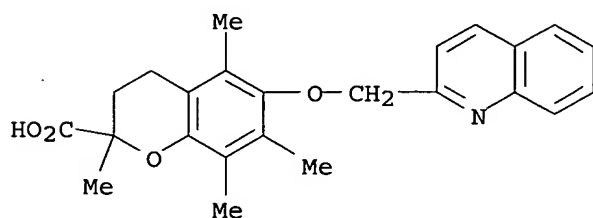


RN 122005-20-3 HCAPLUS
 CN 2H-1-Benzopyran-2-carboxylic acid, 6-(acetyloxy)-3,4-dihydro-2,5,7,8-tetramethyl- (9CI) (CA INDEX NAME)



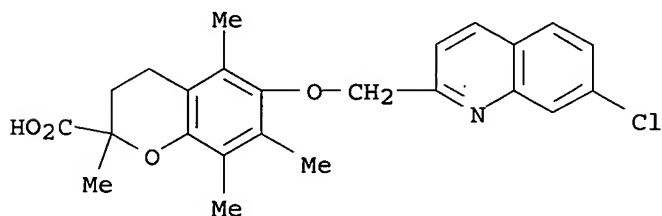
RN 208039-84-3 HCAPLUS

CN 2H-1-Benzopyran-2-carboxylic acid, 3,4-dihydro-2,5,7,8-tetramethyl-6-(2-quinolinylmethoxy)- (9CI) (CA INDEX NAME)



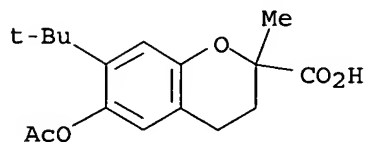
RN 208039-86-5 HCAPLUS

CN 2H-1-Benzopyran-2-carboxylic acid, 6-[(7-chloro-2-quinolinyl)methoxy]-3,4-dihydro-2,5,7,8-tetramethyl- (9CI) (CA INDEX NAME)



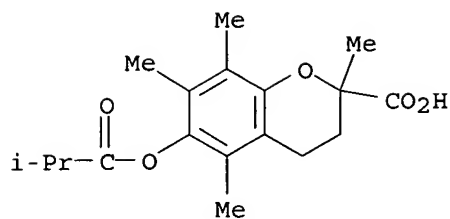
RN 208039-88-7 HCAPLUS

CN 2H-1-Benzopyran-2-carboxylic acid, 6-(acetyloxy)-7-(1,1-dimethylethyl)-3,4-dihydro-2-methyl- (9CI) (CA INDEX NAME)

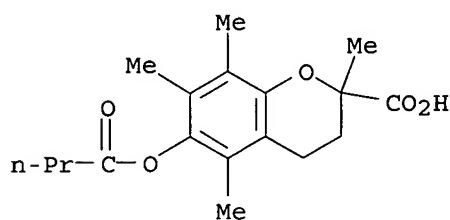


RN 208039-90-1 HCAPLUS

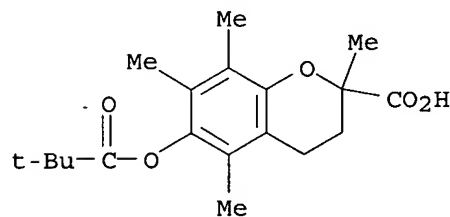
CN 2H-1-Benzopyran-2-carboxylic acid, 3,4-dihydro-2,5,7,8-tetramethyl-6-(2-methyl-1-oxopropoxy)- (9CI) (CA INDEX NAME)



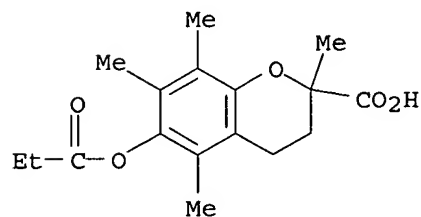
RN 208039-92-3 HCAPLUS
 CN 2H-1-Benzopyran-2-carboxylic acid, 3,4-dihydro-2,5,7,8-tetramethyl-6-(1-oxobutoxy)- (9CI) (CA INDEX NAME)



RN 208039-94-5 HCAPLUS
 CN 2H-1-Benzopyran-2-carboxylic acid, 6-(2,2-dimethyl-1-oxopropoxy)-3,4-dihydro-2,5,7,8-tetramethyl- (9CI) (CA INDEX NAME)



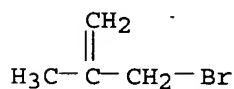
RN 208039-96-7 HCAPLUS
 CN 2H-1-Benzopyran-2-carboxylic acid, 3,4-dihydro-2,5,7,8-tetramethyl-6-(1-oxopropoxy)- (9CI) (CA INDEX NAME)



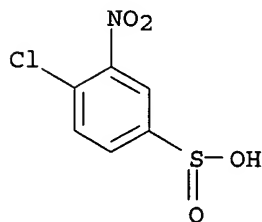
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 15 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1997:784425 HCAPLUS
 DOCUMENT NUMBER: 127:345953
 TITLE: Deprotection of Allyl Groups with Sulfinic Acids and Palladium Catalyst
 AUTHOR(S): Honda, Masanori; Morita, Hiromasa; Nagakura, Isao
 CORPORATE SOURCE: Chemical Process Development Laboratory Drug Substance Manufacturing Plant, Pfizer Pharmaceuticals Inc., Taketoyo, 470-23, Japan
 SOURCE: Journal of Organic Chemistry (1997), 62(25), 8932-8936
 CODEN: JOCEAH; ISSN: 0022-3263
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 127:345953
 AB Sulfinic acids and their salts (e.g., PhSO₂H, 4-MeC₆H₄SO₂Na), together with a Pd catalyst [e.g., Pd(PPh₃)₄], were used to remove allylic groups from allylic esters, ethers, and amines. Excellent yields of the deprotected carboxylic acids, alcs., and amines were obtained.
 IT 1458-98-6, 3-Bromo-2-methylpropene 80917-26-6, Benzenesulfinic acid, 4-chloro-3-nitro-, sodium salt
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (deprotection of allylic compds. with sulfinic acids and palladium catalyst)
 RN 1458-98-6 HCAPLUS
 CN 1-Propene, 3-bromo-2-methyl- (9CI) (CA INDEX NAME)



RN 80917-26-6 HCAPLUS
 CN Benzenesulfinic acid, 4-chloro-3-nitro-, sodium salt (9CI) (CA INDEX NAME)



REFERENCE COUNT: 61 THERE ARE 61 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

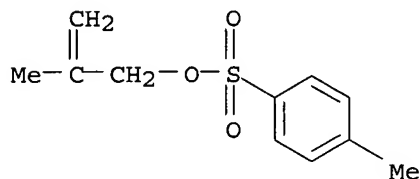
L47 ANSWER 16 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1993:123849 HCAPLUS

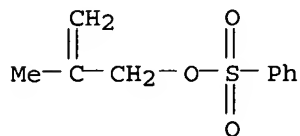
DOCUMENT NUMBER: 118:123849

TITLE: Nucleophilic substitution reactions of methallyl arenesulphonates with anilines and

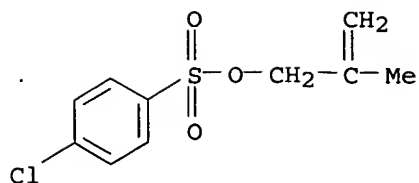
AUTHOR(S): N,N-dimethylanilines
 Oh, Hyuck Keun; Shin, Chul Ho
 CORPORATE SOURCE: Dep. Chem., Chonbuk Natl. Univ., Chonju, 560-756, S. Korea
 SOURCE: Journal of Physical Organic Chemistry (1992), 5(11), 731-5
 CODEN: JPOCEE; ISSN: 0894-3230
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Kinetic studies of the reactions of $\text{CH}_2\text{:CMeCH}_2\text{OSO}_2\text{C}_6\text{H}_4\text{Z-p}$ (I; Z=Me,H,Cl,NO₂) with anilines and N,N-dimethylanilines in acetonitrile at 45.0° are reported. The sign and magnitude of the cross-interaction consts. ρ_{xz} (and β_{xz}) between substituents in the nucleophile (X) and leaving group (Z) suggest that the transition state (TS) is slightly tighter than that for the corresponding reactions of allyl arenesulfonates(II). This is also supported by the observation that the magnitudes of ρ_x and ρ_z for I are uniformly greater than those for the reactions of II. These results are in line with the simple MO theory that the 2-position of the allyl system is inactive electronically. The steric effect of the 2-Me group in II causes a rate retardation and a shift of the TS toward a later position along the reaction coordinate with a slight increase in the overall tightness of the TS structure. The large $|\rho_{xz}|$ value obtained eliminates the possibility of an $\text{S}_{\text{N}}2'$ mechanism.
 IT 20443-62-3 20443-63-4 20443-64-5
 77618-50-9
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (nucleophilic substitution reaction of, with anilines and dimethylanilines, kinetics and mechanism of)
 RN 20443-62-3 HCAPLUS
 CN 2-Propen-1-ol, 2-methyl-, 4-methylbenzenesulfonate (9CI) (CA INDEX NAME)



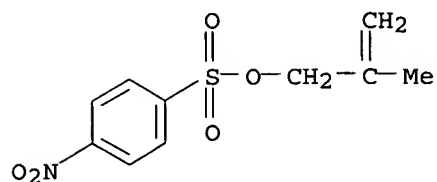
RN 20443-63-4 HCAPLUS
 CN 2-Propen-1-ol, 2-methyl-, benzenesulfonate (7CI, 8CI, 9CI) (CA INDEX NAME)



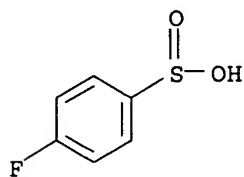
RN 20443-64-5 HCAPLUS
 CN Benzenesulfonic acid, 4-chloro-, 2-methyl-2-propenyl ester (9CI) (CA INDEX NAME)



RN 77618-50-9 HCAPLUS
 CN Benzenesulfonic acid, 4-nitro-, 2-methyl-2-propenyl ester (9CI) (CA INDEX NAME)

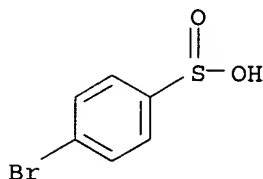


L47 ANSWER 17 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1990:118372 HCAPLUS
 DOCUMENT NUMBER: 112:118372
 TITLE: Hydration of 1- and 3-(arylsulfonyl)-1-propynes and (arylsulfonyl)allenes
 AUTHOR(S): Mikhailova, V. N.; Bulat, A. D.; Yurevich, V. P.; Ezhova, L. A.
 CORPORATE SOURCE: Leningr. Inst. Sov. Torgovly, Leningrad, USSR
 SOURCE: Zhurnal Organicheskoi Khimii (1988), 24(9), 1948-52
 CODEN: ZORKAE; ISSN: 0514-7492
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 OTHER SOURCE(S): CASREACT 112:118372
 AB Reaction of isomeric RSO2CH2C.tplbond.CH (R = Ph, substituted Ph), RSO2CH:C:CH2 (R = Ph, 4-FC6H4, 4-MeC6H4, 4-O2NC6H4), and RSO2C:Me (R = Ph, 4-FC6H4) with R1NH2 (R1 = 3-MeC6H4, 4-MeOC6H4) in an aqueous-organic solvent gives RSO2CH2COME via the unstable enamine intermediates RSO2CH:CMenHR1.
 IT 369-51-7P 1195-33-1P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
 RN 369-51-7 HCAPLUS
 CN Benzenesulfinic acid, 4-fluoro- (9CI) (CA INDEX NAME)



RN 1195-33-1 HCAPLUS

CN Benzenesulfinic acid, 4-bromo- (9CI) (CA INDEX NAME)

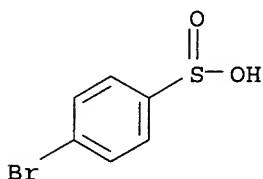


IT 34176-08-4

RL: RCT (Reactant); RACT (Reactant or reagent)
(substitution reaction of, with bromoacetone)

RN 34176-08-4 HCAPLUS

CN Benzenesulfinic acid, 4-bromo-, sodium salt (9CI) (CA INDEX NAME)



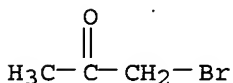
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IT 598-31-2, Bromoacetone

RL: RCT (Reactant); RACT (Reactant or reagent)
(substitution reaction of, with sodium arylsulfinates)

RN 598-31-2 HCAPLUS

CN 2-Propanone, 1-bromo- (8CI, 9CI) (CA INDEX NAME)



L47 ANSWER 18 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1985:45212 HCAPLUS

DOCUMENT NUMBER: 102:45212

TITLE: Stereochemistry of allyl sulfones. On the structure of metalated allyl sulfones and their stereochemistry of alkylation

AUTHOR(S): Trost, Barry M.; Schmuff, Norman R.

CORPORATE SOURCE: McElvain Lab. Org. Chem., Univ. Wisconsin, Madison, WI, 53706, USA

SOURCE: Journal of the American Chemical Society (1985), 107(2), 396-405

CODEN: JACSAT; ISSN: 0002-7863

DOCUMENT TYPE: Journal

LANGUAGE: English

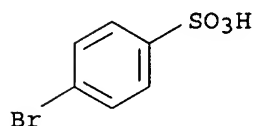
OTHER SOURCE(S): CASREACT 102:45212

AB Stereochem. studies involving alkylation of metalated allyl sulfones are probed to address the question of the structure of these important synthetic intermediates. In contrast to recent conclusions, both exptl. and theor., declaring sulfone-stabilized carbanions planar, the diastereoselectivity of these alkylations questions such conclusions even though the addnl. allylic conjugation would have been anticipated to provide a further driving force for planarity. A model to rationalize the seemingly contrastive highly diastereoselective alkylations in which the sulfone-stabilized allylic carbanion exists as a somewhat pyramidalized organometallic emerges. The preferred conformations of the cyclohexenyl allylic sulfones place the sulfone moiety in an axial orientation and, in at least one acyclic case, the C-S bond parallel to the p-orbitals. An electronic stabilization is proposed to account for this conformation. In addition, the stereochem. of the palladium-catalyzed allylic alkylation with arylsulfinate places this nucleophile into the class of heteroatom nucleophiles that proceed with predominant net retention of configuration.

IT 5015-75-8
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, with carvyl acetate, catalyst for)

RN 5015-75-8 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, sodium salt (9CI) (CA INDEX NAME)

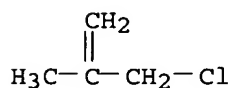


● Na

IT 563-47-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, with sodium benzenesulfinate)

RN 563-47-3 HCAPLUS

CN 1-Propene, 3-chloro-2-methyl- (9CI) (CA INDEX NAME)



L47 ANSWER 19 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STM

ACCESSION NUMBER: 1985:5305 HCAPLUS

DOCUMENT NUMBER: 102:5305

TITLE: Substituent effect on the acetolysis of neophyl p-bromobenzenesulfonates

AUTHOR(S): Fujio, Mizue; Funatsu, Kimito; Shibata, Koji; Yoshinaga, Hironori; Maeda, Yasuyuki; Goto, Mutsuo; Mishima, Masaaki; Tsuno, Yuho

CORPORATE SOURCE: Fac. Sci., Kyushu Univ., Fukuoka, 812, Japan

SOURCE: Memoirs of the Faculty of Science, Kyushu University, Series C: Chemistry (1984), 14(2), 319-32

CODEN: MFKCAL; ISSN: 0085-2635

DOCUMENT TYPE: Journal

LANGUAGE: English

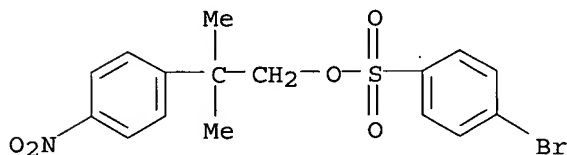
AB Substituent effects on acetolysis kinetics of several $\text{RC}_6\text{H}_4\text{CMe}_2\text{CH}_2\text{OBs}$ (Bs = brosylate; R = p-MeO, p-MeS, m-Me, etc.), as well as of some analogous disubstituted derivs., were determined. An r value (a measure of resonance demand) of 0.56 in the LArSR equation indicated that the mechanism involves a rate-determining aryl-assisted transition state, which cascades down to the tertiary carbonium ion without staying as a bridged intermediate. Thus, the substituent effect maybe viewed as the effect on the aryl-assisted ionization step. The application of the Brown $\rho\sigma^+$ equation is criticized.

IT 18755-55-0P 18755-58-3P 24517-38-2P
 28204-21-9P 83324-07-6P 83324-08-7P
 83324-09-8P 83324-10-1P 83324-11-2P
 83324-12-3P 83324-13-4P 83324-14-5P
 83324-15-6P 83324-16-7P 83324-17-8P
 83324-18-9P 83324-19-0P 83324-20-3P
 93748-33-5P 93748-34-6P 93748-35-7P
 93748-36-8P 93748-37-9P 93748-38-0P
 93748-39-1P 93748-40-4P 93748-41-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and acetolysis of, kinetics of)

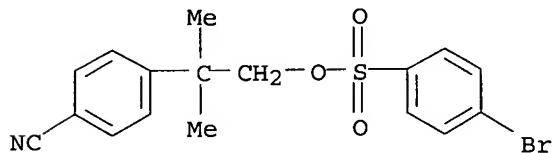
RN 18755-55-0 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, 2-methyl-2-(4-nitrophenyl)propyl ester (9CI) (CA INDEX NAME)



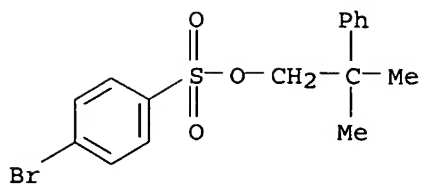
RN 18755-58-3 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, 2-(4-cyanophenyl)-2-methylpropyl ester (9CI) (CA INDEX NAME)

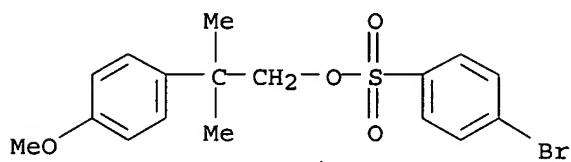


RN 24517-38-2 HCAPLUS

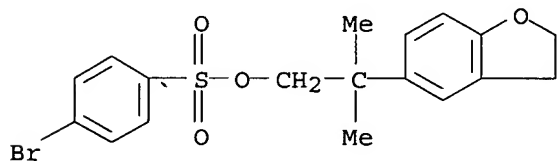
CN Benzenesulfonic acid, 4-bromo-, 2-methyl-2-phenylpropyl ester (9CI) (CA INDEX NAME)



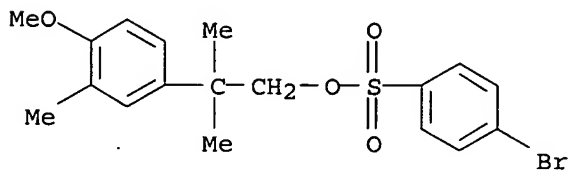
RN 28204-21-9 HCAPLUS
 CN Benzenesulfonic acid, 4-bromo-, 2-(4-methoxyphenyl)-2-methylpropyl ester
 (9CI) (CA INDEX NAME)



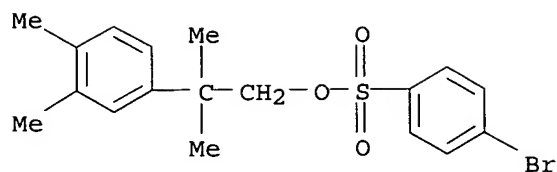
RN 83324-07-6 HCAPLUS
 CN Benzenesulfonic acid, 4-bromo-, 2-(2,3-dihydro-5-benzofuranyl)-2-methylpropyl ester (9CI) (CA INDEX NAME)



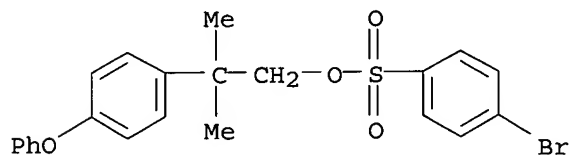
RN 83324-08-7 HCAPLUS
 CN Benzenesulfonic acid, 4-bromo-, 2-(4-methoxy-3-methylphenyl)-2-methylpropyl ester (9CI) (CA INDEX NAME)



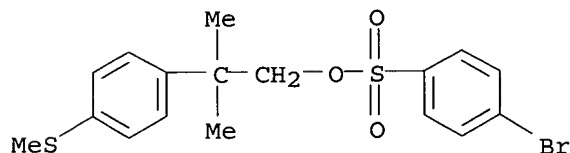
RN 83324-09-8 HCAPLUS
 CN Benzenesulfonic acid, 4-bromo-, 2-(3,4-dimethylphenyl)-2-methylpropyl ester (9CI) (CA INDEX NAME)



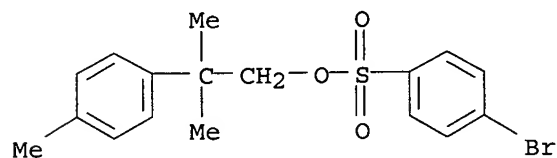
RN 83324-10-1 HCAPLUS
 CN Benzenesulfonic acid, 4-bromo-, 2-methyl-2-(4-phenoxyphenyl)propyl ester
 (9CI) (CA INDEX NAME)



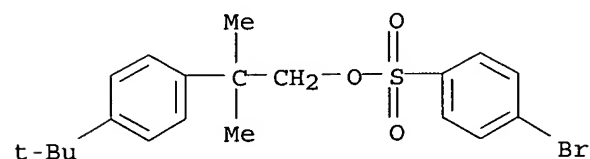
RN 83324-11-2 HCAPLUS
 CN Benzenesulfonic acid, 4-bromo-, 2-methyl-2-[4-(methylthio)phenyl]propyl
 ester (9CI) (CA INDEX NAME)



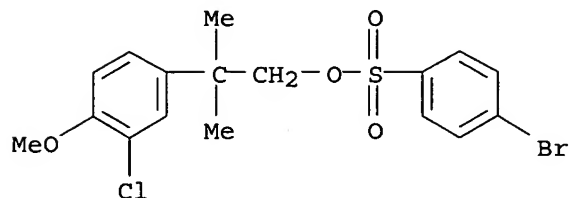
RN 83324-12-3 HCAPLUS
 CN Benzenesulfonic acid, 4-bromo-, 2-methyl-2-(4-methylphenyl)propyl ester
 (9CI) (CA INDEX NAME)



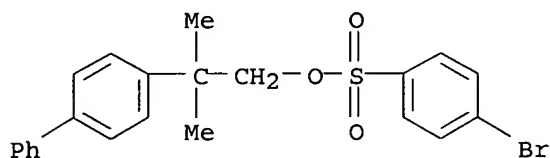
RN 83324-13-4 HCAPLUS
 CN Benzenesulfonic acid, 4-bromo-, 2-[4-(1,1-dimethylethyl)phenyl]-2-
 methylpropyl ester (9CI) (CA INDEX NAME)



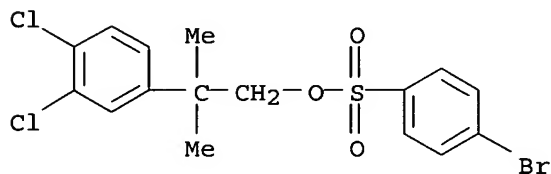
RN 83324-14-5 HCAPLUS
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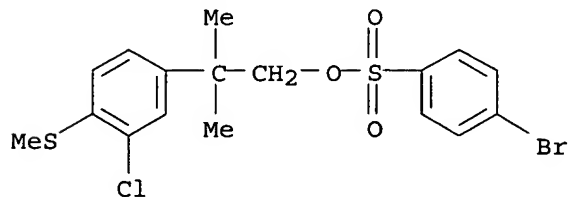
RN 83324-15-6 HCAPLUS
 CN Benzenesulfonic acid, 4-bromo-, 2-[1,1'-biphenyl]-4-yl-2-methylpropyl ester (9CI) (CA INDEX NAME)



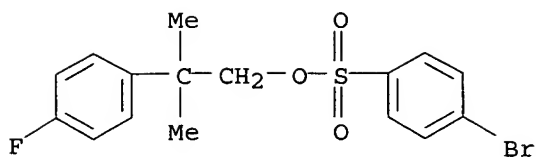
RN 83324-16-7 HCAPLUS
 CN Benzenesulfonic acid, 4-bromo-, 2-(3,4-dichlorophenyl)-2-methylpropyl ester (9CI) (CA INDEX NAME)



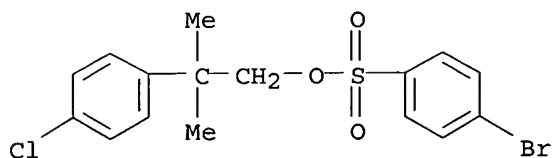
RN 83324-17-8 HCAPLUS
 CN Benzenesulfonic acid, 4-bromo-, 2-[3-chloro-4-(methylthio)phenyl]-2-methylpropyl ester (9CI) (CA INDEX NAME)



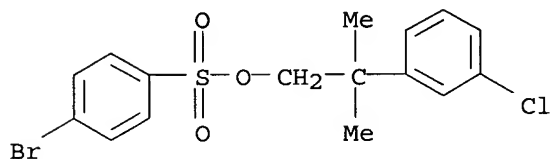
RN 83324-18-9 HCAPLUS
 CN Benzenesulfonic acid, 4-bromo-, 2-(4-fluorophenyl)-2-methylpropyl ester (9CI) (CA INDEX NAME)



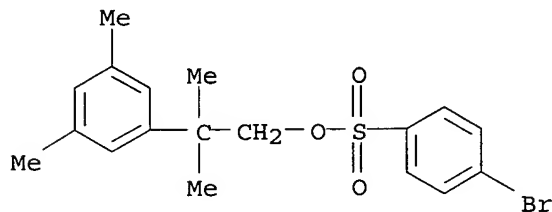
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 CN Benzenesulfonic acid, 4-bromo-, 2-(4-chlorophenyl)-2-methylpropyl ester
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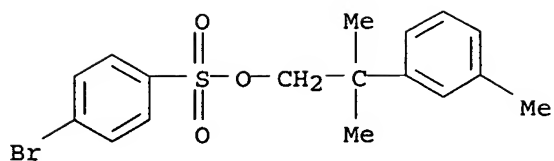
RN 83324-20-3 HCAPLUS
 CN Benzenesulfonic acid, 4-bromo-, 2-(3-chlorophenyl)-2-methylpropyl ester
 (9CI) (CA INDEX NAME)



RN 93748-33-5 HCAPLUS
 CN Benzenesulfonic acid, 4-bromo-, 2-(3,5-dimethylphenyl)-2-methylpropyl
 ester (9CI) (CA INDEX NAME)

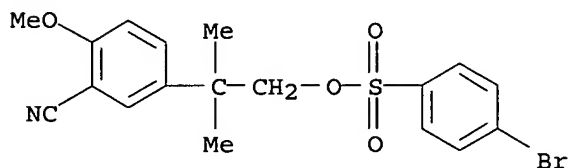


RN 93748-34-6 HCAPLUS
 CN Benzenesulfonic acid, 4-bromo-, 2-methyl-2-(3-methylphenyl)propyl ester
 (9CI) (CA INDEX NAME)



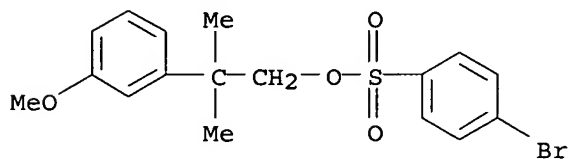
RN 93748-35-7 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, 2-(3-cyano-4-methoxyphenyl)-2-methylpropyl ester (9CI) (CA INDEX NAME)



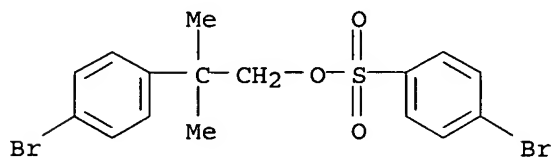
RN 93748-36-8 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, 2-(3-methoxyphenyl)-2-methylpropyl ester (9CI) (CA INDEX NAME)



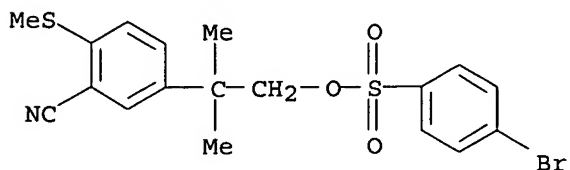
RN 93748-37-9 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, 2-(4-bromophenyl)-2-methylpropyl ester (9CI) (CA INDEX NAME)

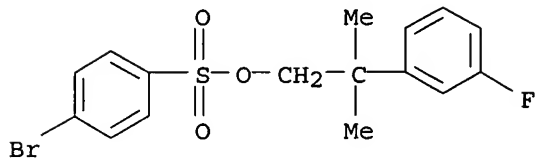


RN 93748-38-0 HCAPLUS

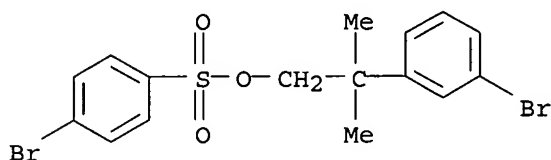
CN Benzenesulfonic acid, 4-bromo-, 2-[3-cyano-4-(methylthio)phenyl]-2-methylpropyl ester (9CI) (CA INDEX NAME)



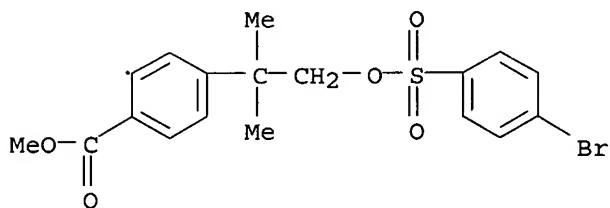
RN 93748-39-1 HCAPLUS
 CN Benzenesulfonic acid, 4-bromo-, 2-(3-fluorophenyl)-2-methylpropyl ester
 (9CI) (CA INDEX NAME)



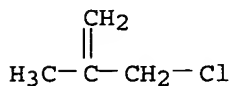
RN 93748-40-4 HCAPLUS
 CN Benzenesulfonic acid, 4-bromo-, 2-(3-bromophenyl)-2-methylpropyl ester
 (9CI) (CA INDEX NAME)



RN 93748-41-5 HCAPLUS
 CN Benzoic acid, 4-[2-[[[4-bromophenyl]sulfonyl]oxy]-1,1-dimethylethyl]-, methyl ester (9CI) (CA INDEX NAME)



IT 563-47-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, with chloroanisole in presence of carbon disulfide)
 RN 563-47-3 HCAPLUS
 CN 1-Propene, 3-chloro-2-methyl- (9CI) (CA INDEX NAME)

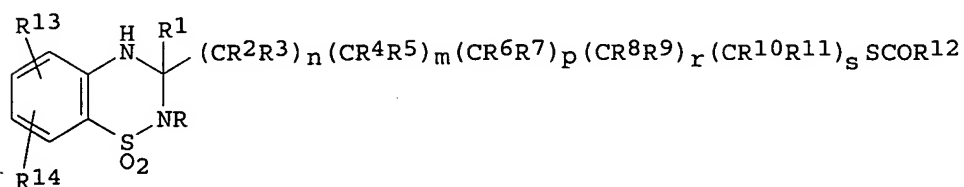


L47 ANSWER 20 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1982:582465 HCAPLUS
 DOCUMENT NUMBER: 97:182465
 TITLE: Benzothiadiazines having diuretic activity
 INVENTOR(S): Haugwitz, Rudiger D.
 PATENT ASSIGNEE(S): E. R. Squibb and Sons, Inc., USA

SOURCE: U.S., 3 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4338435	A	19820706	US 1981-268944	19810601 <--
PRIORITY APPLN. INFO.:			US 1981-268944	19810601
OTHER SOURCE(S):		CASREACT 97:182465		

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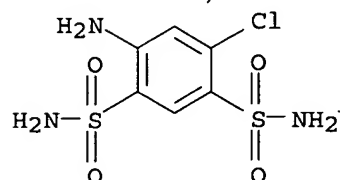
AB [(Acylthio)alkyl]benzo]thiadiazine dioxides I (R = H, alkyl, PhCH₂; R₁ = H, alkyl, Ph; R₂, R₃, R₄, R₅, R₆, R₇, R₈, R₉, R₁₀, R₁₁ = H, halo, alkyl, Ph; R₁₂ = alkyl, Ph, PhCH₂; R₁₃, R₁₄ = H, halo, CF₃, SO₂NH₂, NO₂, alkyl, alkoxy; n, m, p, r, s = 0, 1; R₁R₁₂ = CH₂, CH₂CH₂) were prepared and are useful as diuretics (no data). Thus, refluxing 5,2,4-Cl(H₂NSO₂)₂C₆H₂NH₂ with AcSCH₂CH₂CHO in MeCN gave I (n = m = 1, p = r = s = 0, R₁₂ = Me, R₁₃ = 6-Cl, R₁₄ = 7-SO₂NH₂, R-R₅ = H).

IT 121-30-2

RL: RCT (Reactant); RACT (Reactant or reagent)
 (cyclocondensation of, with β-(acetylthio)propionaldehyde)

RN 121-30-2 HCAPLUS

CN 1,3-Benzenedisulfonamide, 4-amino-6-chloro- (9CI) (CA INDEX NAME)

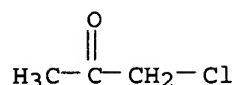


IT 78-95-5

RL: RCT (Reactant); RACT (Reactant or reagent)
 (esterification by, of thioacetic acid)

RN 78-95-5 HCAPLUS

CN 2-Propanone, 1-chloro- (8CI, 9CI) (CA INDEX NAME)



L47 ANSWER 21 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1982:180349 HCAPLUS

DOCUMENT NUMBER: 96:180349

TITLE: Alkyl and alkenyl esters of sulfonic acids. XXI.
Kinetic isotope effects of alkyl and alkenyl esters of sulfonic acid

AUTHOR(S): Sendega, R.; Gorbatenko, N.; Vizgert, R.

CORPORATE SOURCE: Odessa Polytech. Inst., Odessa, USSR

SOURCE: Organic Reactivity (Tartu) (1980), 17(3), 247-66

CODEN: ORREDZ; ISSN: 0131-8314

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The hydrolysis kinetics of p-MeC₆H₄SO₃Cr₂CH:CH₂, labeled with ¹⁴C or α-deuterated, and of different alkyl and alkenyl sulfonates in H₂O or D₂O are compared with those of alkenyl chlorides and show that the differences in transition states are related to the differences in the degree of covalency of the breaking substrate bond. The transition state structure also depends on the sp. solvation power of the solvent. The occurrence of ion pairing and ion separation in the hydrolyses is discussed.

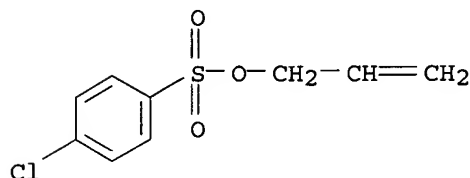
IT 6165-74-8 20443-62-3 33420-10-9

RL: RCT (Reactant); RACT (Reactant or reagent)

(hydrolysis of, solvent isotope effect in relation to kinetics and mechanism of)

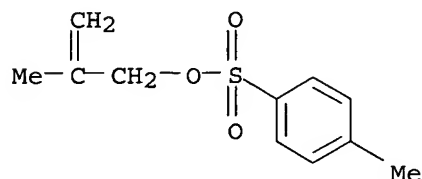
RN 6165-74-8 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 2-propenyl ester (9CI) (CA INDEX NAME)



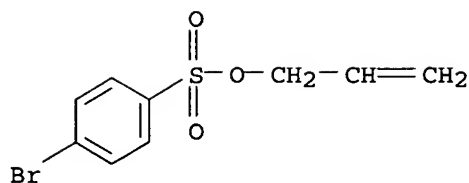
RN 20443-62-3 HCAPLUS

CN 2-Propen-1-ol, 2-methyl-, 4-methylbenzenesulfonate (9CI) (CA INDEX NAME)

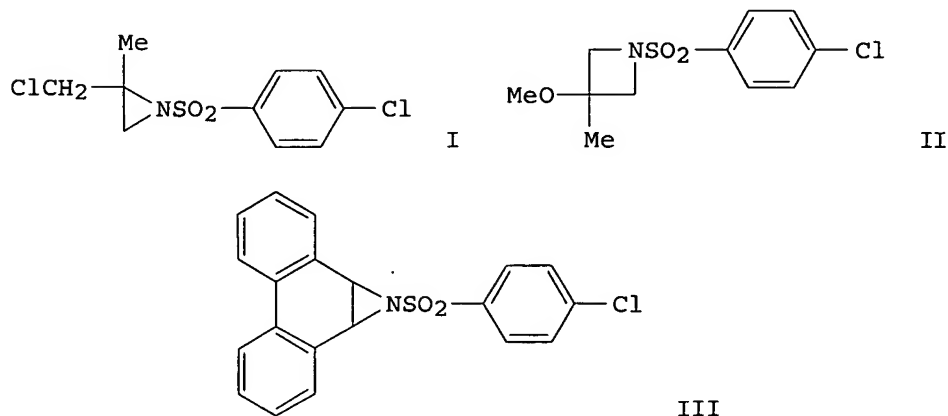


RN 33420-10-9 HCAPLUS

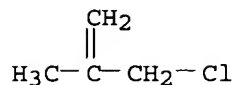
CN Benzenesulfonic acid, 4-bromo-, 2-propenyl ester (9CI) (CA INDEX NAME)



L47 ANSWER 22 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1982:142585 HCAPLUS
 DOCUMENT NUMBER: 96:142585
 TITLE: Synthesis and reactions of substituted
 1-(arenesulfonyl)aziridines and azetidines
 AUTHOR(S): Markov, V. I.; Danileiko, D. A.; Doroshenko, V. A.;
 Gella, I. M.; Polyakov, A. E.
 CORPORATE SOURCE: Dnepropetr. Khim.-Tekhnol. Inst., Dnepropetrovsk, USSR
 SOURCE: Org. Soedin. Sery (1980), Volume 2, 176-84.
 Editor(s): Gal'pern, G. D. Zinatne: Riga, USSR.
 CODEN: 38CKA3
 DOCUMENT TYPE: Conference
 LANGUAGE: Russian
 OTHER SOURCE(S): CASREACT 96:142585
 GI



AB Addition reaction of 4-ClC₆H₄SO₂NC₁CH₂CMeCH₂Cl gave
 4-ClC₆H₄SO₂NC₁CH₂CMeClCH₂Cl, which was N-dichlorinated with Na₂SO₃, then
 cyclized to I with aqueous NaOH. I with H₂SO₄ in MeOH gave
 4-ClC₆H₄SO₂NHCH₂C(OMe)MeCH₂Cl, which with NaOEt gave 14.5% II. Also
 prepared were several other aziridines, III, and its 9,10-anthracene analog.
 IT 563-47-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (addition reaction of, with trichlorobenzenesulfonamide)
 RN 563-47-3 HCAPLUS
 CN 1-Propene, 3-chloro-2-methyl- (9CI) (CA INDEX NAME)

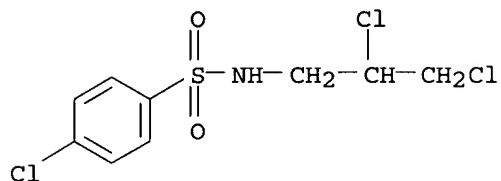


IT 834-70-8P 17260-63-8P 38388-71-5P
38388-76-0P 38388-82-8P 78050-50-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); RACT (Reactant or reagent)
(preparation and alkaline cyclization of)

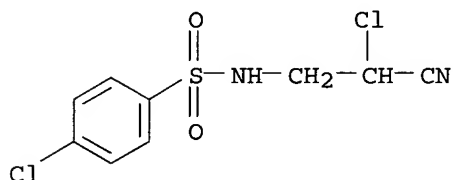
RN 834-70-8 HCAPLUS

CN Benzenesulfonamide, 4-chloro-N-(2,3-dichloropropyl)- (9CI) (CA INDEX NAME)



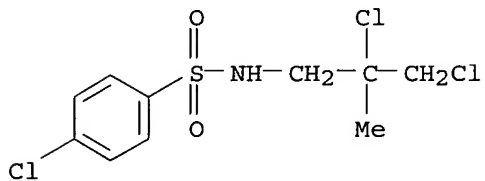
RN 17260-63-8 HCAPLUS

CN Benzenesulfonamide, 4-chloro-N-(2-chloro-2-cyanoethyl)- (9CI) (CA INDEX NAME)



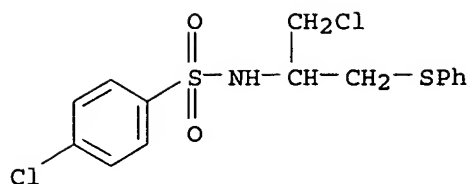
RN 38388-71-5 HCAPLUS

CN Benzenesulfonamide, 4-chloro-N-(2,3-dichloro-2-methylpropyl)- (9CI) (CA INDEX NAME)

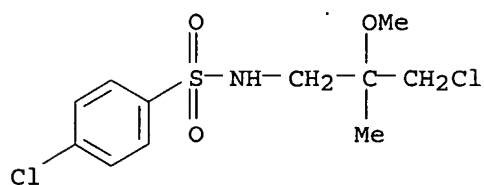


RN 38388-76-0 HCAPLUS

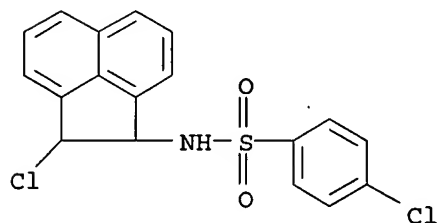
CN Benzenesulfonamide, 4-chloro-N-[1-(chloromethyl)-2-(phenylthio)ethyl]- (9CI) (CA INDEX NAME)



RN 38388-82-8 HCAPLUS
 CN Benzenesulfonamide, 4-chloro-N-(3-chloro-2-methoxy-2-methylpropyl)- (9CI)
 (CA INDEX NAME)



RN 78050-50-7 HCAPLUS
 CN Benzenesulfonamide, 4-chloro-N-(2-chloro-1,2-dihydro-1-acenaphthylenyl)-
 (9CI) (CA INDEX NAME)



L47 ANSWER 23 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1982:51998 HCAPLUS
 DOCUMENT NUMBER: 96:51998
 TITLE: Sulfonic esters of keto alcohols and medicine
 containing these substances
 INVENTOR(S): Fujii, Setsuro; Hamakawa, Toshihiro; Ogawa, Kazuo;
 Muranaka, Yoshiyuki; Hashimoto, Sadao
 PATENT ASSIGNEE(S): Taiho Yakuhiin Kogyo K. K., Japan
 SOURCE: Fr. Demande, 64 pp.
 CODEN: FRXXBL
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2475041	A1	19810807	FR 1981-1712	19810129 <--
FR 2475041	B1	19841228		
JP 56108758	A2	19810828	JP 1980-11214	19800131 <--

Sackey 10_682530

JP 60059904	B4	19851227		
JP 57021321	A2	19820204	JP 1980-95299	19800711 <--
JP 61030645	B4	19860715		
JP 57059854	A2	19820410	JP 1980-137026	19800930 <--
JP 62053511	B4	19871110		
JP 57102858	A2	19820626	JP 1980-180852	19801219 <--
JP 63018940	B4	19880420		
US 4411911	A	19831025	US 1981-225979	19810119 <--
GB 2068371	A	19810812	GB 1981-1888	19810122 <--
AU 8166677	A1	19810806	AU 1981-66677	19810128 <--
AU 527933	B2	19830331		
CA 1167046	A1	19840508	CA 1981-369549	19810128 <--
CH 655098	A	19860327	CH 1981-599	19810129 <--
DE 3103144	A1	19811126	DE 1981-3103144	19810130 <--
DE 3103144	C2	19921112		
ES 499527	A1	19820201	ES 1981-499527	19810130 <--
NL 8100494	A	19810901	NL 1981-494	19810202 <--
NL 185343	B	19891016		
NL 185343	C	19900316		
US 4489091	A	19841218	US 1983-492873	19830509 <--

PRIORITY APPLN. INFO.:

JP 1980-11214	A	19800131
JP 1980-95299	A	19800711
JP 1980-137026	A	19800930
JP 1980-180852	A	19801219
US 1981-225979	A3	19810119

OTHER SOURCE(S): CASREACT 96:51998

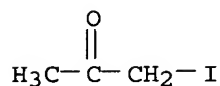
AB Sulfonic acids were treated with diazomethyl ketones, and sulfonic acid Ag salts with halomethyl ketones, to yield $\text{RSO}_3\text{CH}_2\text{CO}(\text{CH}_2)_n\text{R}_1$ [R = alkyl, alkoxyalkyl, aralkyl, cycloalkyl, aryl; n = 0-6; R₁ = alkyl, alkenyl, halo, OH, alkoxy, carbalkoxy, (alkoxycarbonyl)amino, $\text{NHCO}_2\text{CH}_2\text{Ph}$, cycloalkyl, oxacycloalkyl, oxaaryl, aryl], which exhibited anticholesteremic activity. Thus, PhSO_3H reacted with PrCOCHN_2 in ether to give $\text{PhSO}_3\text{CH}_2\text{COPr}$.

IT 3019-04-3

RL: RCT (Reactant); RACT (Reactant or reagent)
(esterification of silver benzenesulfonate derivative by)

RN 3019-04-3 HCAPLUS

CN 2-Propanone, 1-iodo- (8CI, 9CI) (CA INDEX NAME)

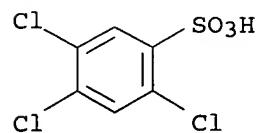


IT 6378-25-2 80524-88-5

RL: RCT (Reactant); RACT (Reactant or reagent)
(esterification of, by diazomethyl ketone derivative)

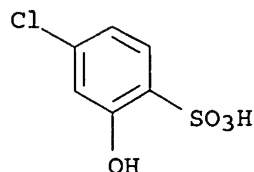
RN 6378-25-2 HCAPLUS

CN Benzenesulfonic acid, 2,4,5-trichloro- (6CI, 7CI, 9CI) (CA INDEX NAME)



RN 80524-88-5 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-2-hydroxy- (9CI) (CA INDEX NAME)

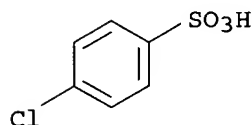


IT 98-66-8

RL: RCT (Reactant); RACT (Reactant or reagent)
(esterification of, by diazomethyl ketones)

RN 98-66-8 HCAPLUS

CN Benzenesulfonic acid, 4-chloro- (9CI) (CA INDEX NAME)



IT 80506-30-5P 80506-31-6P 80506-32-7P

80506-33-8P 80519-87-5P 80520-45-2P

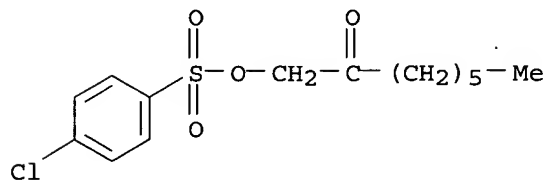
80520-46-3P 80520-47-4P 80520-74-7P

80524-35-2P 80524-39-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation and anticholesteremic activity of)

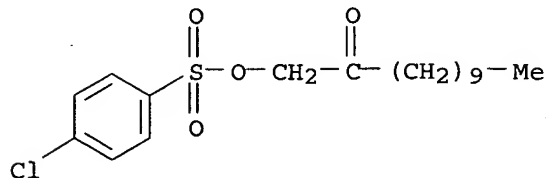
RN 80506-30-5 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 2-oxooctyl ester (9CI) (CA INDEX NAME)



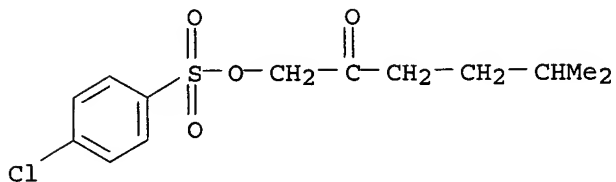
RN 80506-31-6 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 2-oxododecyl ester (9CI) (CA INDEX NAME)

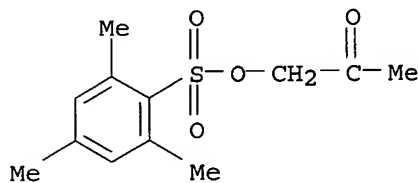


RN 80506-32-7 HCAPLUS

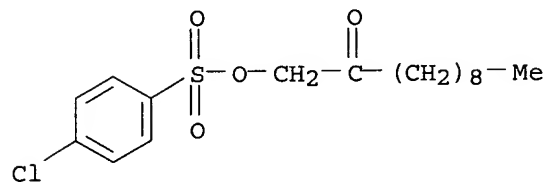
CN Benzenesulfonic acid, 4-chloro-, 5-methyl-2-oxohexyl ester (9CI) (CA INDEX NAME)



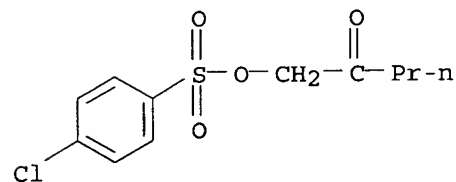
RN 80506-33-8 HCAPLUS
CN Benzenesulfonic acid, 2,4,6-trimethyl-, 2-oxopropyl ester (9CI) (CA INDEX NAME)



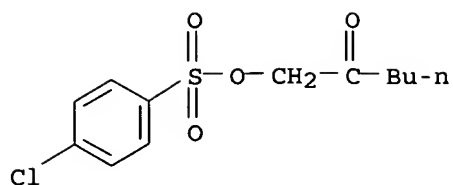
RN 80519-87-5 HCAPLUS
CN Benzenesulfonic acid, 4-chloro-, 2-oxoundecyl ester (9CI) (CA INDEX NAME)



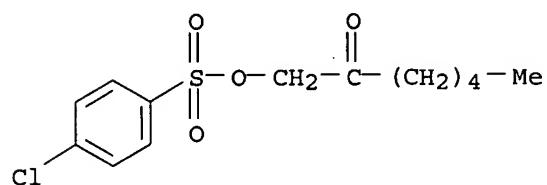
RN 80520-45-2 HCAPLUS
CN Benzenesulfonic acid, 4-chloro-, 2-oxopentyl ester (9CI) (CA INDEX NAME)



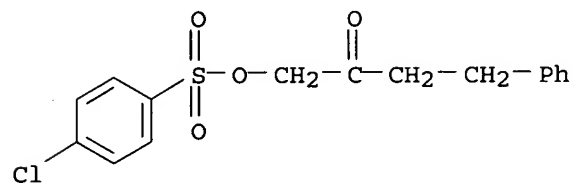
RN 80520-46-3 HCAPLUS
CN Benzenesulfonic acid, 4-chloro-, 2-oxohexyl ester (9CI) (CA INDEX NAME)



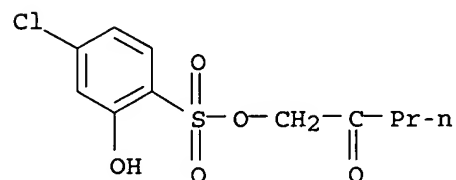
RN 80520-47-4 HCAPLUS
CN Benzenesulfonic acid, 4-chloro-, 2-oxoheptyl ester (9CI) (CA INDEX NAME)



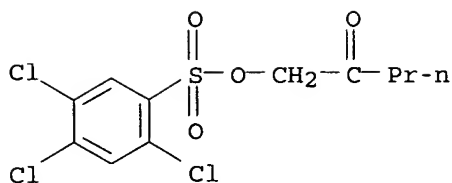
RN 80520-74-7 HCAPLUS
CN Benzenesulfonic acid, 4-chloro-, 2-oxo-4-phenylbutyl ester (9CI) (CA INDEX NAME)



RN 80524-35-2 HCAPLUS
CN Benzenesulfonic acid, 4-chloro-2-hydroxy-, 2-oxopentyl ester (9CI) (CA INDEX NAME)



RN 80524-39-6 HCAPLUS
CN Benzenesulfonic acid, 2,4,5-trichloro-, 2-oxopentyl ester (9CI) (CA INDEX NAME)

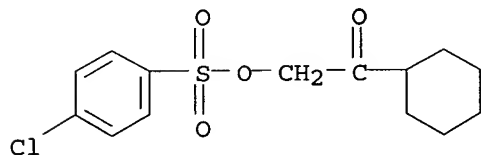


IT 80521-02-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 80521-02-4 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 2-cyclohexyl-2-oxoethyl ester (9CI) (CA
INDEX NAME)



L47 ANSWER 24 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1981:442784 HCAPLUS

DOCUMENT NUMBER: 95:42784

TITLE: Synthesis and reactions of saturated
1-(arenesulfonyl)aziridines and azetidines

AUTHOR(S): Markov, V. I.; Danileiko, D. A.; Doroshenko, V. A.;
Gella, I. M.; Polyakov, A. E.

CORPORATE SOURCE: USSR

SOURCE: Organ. Soedin. Sery, Riga (1980), (2),
176-84

From: Ref. Zh., Khim. 1981, Abstr. No. 3Zh149

DOCUMENT TYPE: Journal

LANGUAGE: Russian

AB Title only translated.

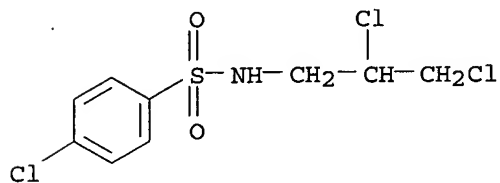
IT 834-70-8P 17260-63-8P 38388-71-5P

38388-82-8P 78050-50-7P

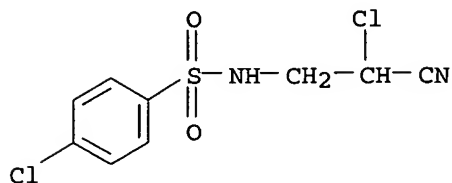
RL: RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); RACT (Reactant or reagent)
(preparation and cyclization of)

RN 834-70-8 HCAPLUS

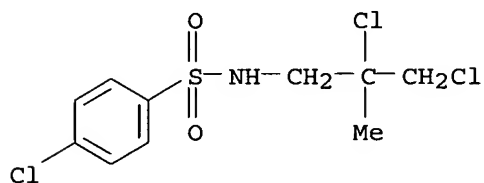
CN Benzenesulfonamide, 4-chloro-N-(2,3-dichloropropyl)- (9CI) (CA INDEX
NAME)



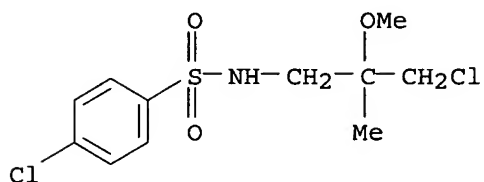
RN 17260-63-8 HCAPLUS
 CN Benzenesulfonamide, 4-chloro-N-(2-chloro-2-cyanoethyl)- (9CI) (CA INDEX NAME)



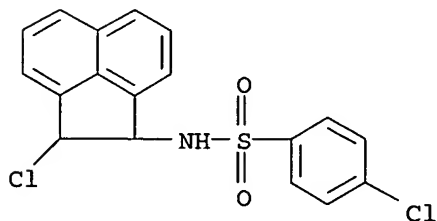
RN 38388-71-5 HCAPLUS
 CN Benzenesulfonamide, 4-chloro-N-(2,3-dichloro-2-methylpropyl)- (9CI) (CA INDEX NAME)



RN 38388-82-8 HCAPLUS
 CN Benzenesulfonamide, 4-chloro-N-(3-chloro-2-methoxy-2-methylpropyl)- (9CI) (CA INDEX NAME)

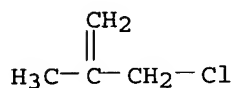


RN 78050-50-7 HCAPLUS
 CN Benzenesulfonamide, 4-chloro-N-(2-chloro-1,2-dihydro-1-acenaphthylenyl)- (9CI) (CA INDEX NAME)

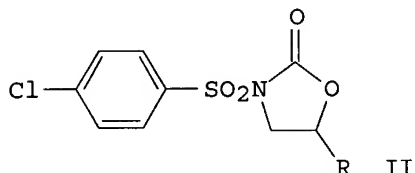


IT 563-47-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, with dichlorobenzenesulfonamides)

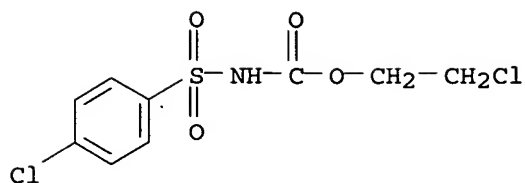
RN 563-47-3 HCAPLUS
 CN 1-Propene, 3-chloro-2-methyl- (9CI) (CA INDEX NAME)



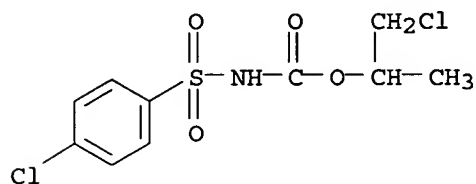
L47 ANSWER 25 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1980:514368 HCAPLUS
 DOCUMENT NUMBER: 93:114368
 TITLE: Chemistry of sulfonyl isocyanates and sulfonyl isothiocyanates. IX. Routes to substituted oxazolidin-2-ones and oxazolidine-2-thiones
 AUTHOR(S): McFarland, J. W.; Hayes, C. E.; Blair, E. B.; Stuhlmacher, K. R.
 CORPORATE SOURCE: Dep. Chem., DePauw Univ., Greencastle, IN, 46135, USA
 SOURCE: Journal of Heterocyclic Chemistry (1980), 17(2), 271-2
 CODEN: JHTCAD; ISSN: 0022-152X
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 93:114368
 GI



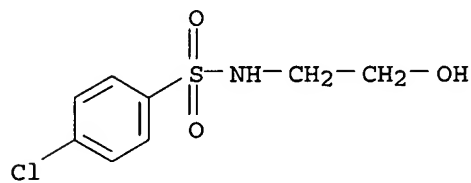
AB p-ClC₆H₄SO₂NCO reacted with 2-chloroethanol and 1-chloro-2-propanol to give p-ClC₆H₄SO₂NHCO₂CHRCH₂Cl (I; R = H, Me). I cyclized under the influence of pyridine to give the oxazolidinones II. II were stable toward HCl but hydrolyzed in 2 M NaOH solution to p-ClC₆H₄SO₂NHCH₂CHROH; p-MeC₆H₄SO₂NCO reacted with 2-chloroethanol to give p-MeC₆H₄SO₂NHC(S)OCH₂CH₂Cl, which was converted by pyridine to 3-(4-toluenesulfonyl)oxazolidine-2-thione.
 IT **63924-75-4P 74668-36-3P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)
 RN 63924-75-4 HCAPLUS
 CN Carbamic acid, [(4-chlorophenyl)sulfonyl]-, 2-chloroethyl ester (9CI) (CA INDEX NAME)



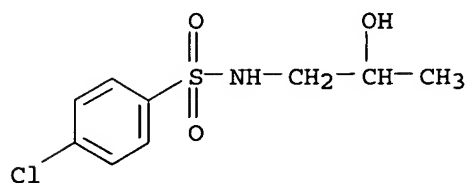
RN 74668-36-3 HCAPLUS
 CN Carbamic acid, [(4-chlorophenyl)sulfonyl]-, 2-chloro-1-methylethyl ester
 (9CI) (CA INDEX NAME)



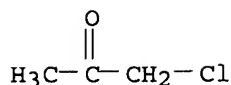
IT 6419-69-8P 74668-38-5P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 6419-69-8 HCAPLUS
 CN Benzenesulfonamide, 4-chloro-N-(2-hydroxyethyl)- (9CI) (CA INDEX NAME)



RN 74668-38-5 HCAPLUS
 CN Benzenesulfonamide, 4-chloro-N-(2-hydroxypropyl)- (9CI) (CA INDEX NAME)



IT 78-95-5
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, with chlorobenzenesulfonyl isocyanate)
 RN 78-95-5 HCAPLUS
 CN 2-Propanone, 1-chloro- (8CI, 9CI) (CA INDEX NAME)



L47 ANSWER 26 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1980:6745 HCAPLUS

DOCUMENT NUMBER: 92:6745

TITLE: Experiments directed toward the total synthesis of terpenes. 24. On the π route to aphidicolin: synthesis of 18,19-bisnoraphidicolan-3-one

AUTHOR(S): Ireland, Robert E.; Aristoff, Paul A.

CORPORATE SOURCE: Chem. Lab., California Inst. Technol., Pasadena, CA, 91125, USA

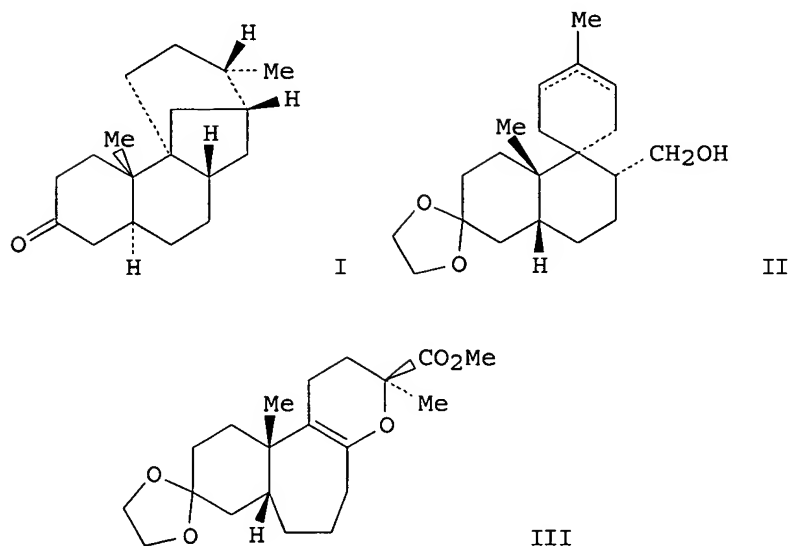
SOURCE: Journal of Organic Chemistry (1979), 44(24), 4323-31

CODEN: JOCEAH; ISSN: 0022-3263

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



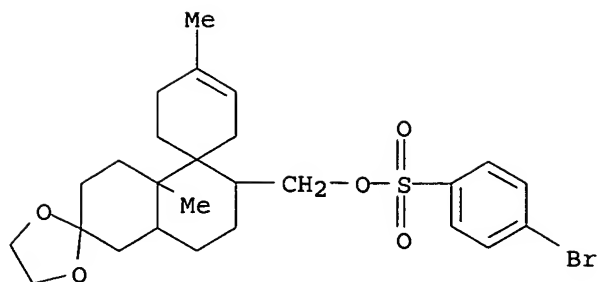
AB Aphidicolane-type diterpenes, e.g., I, were prepared by construction of the bicyclo[3.2.1] ring from the tricyclic olefin II. The latter system required the development of spiroketone synthesis which gave III, whose 7-membered ring was contracted via photolysis of a diazoketone.

IT 71749-48-9P 71773-11-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclodehydration of)

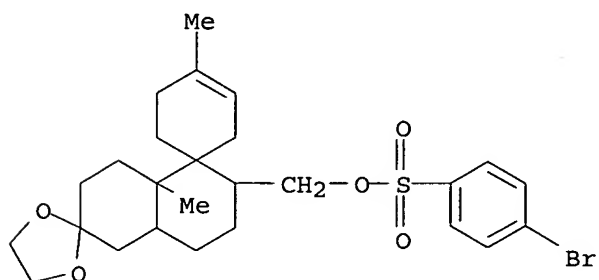
RN 71749-48-9 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, (3',4',4'a,7',8',8'a-hexahydro-4,8'a-dimethyldispiro[3-cyclohexene-1,1'(2'H)-naphthalene-6'(5'H),2''-[1,3]dioxolan]-2'-yl)methyl ester, (1' α ,2' β ,4'a α ,8'a α .alph a.)- (9CI) (CA INDEX NAME)



RN 71773-11-0 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, (3',4',4'a,7',8',8'a-hexahydro-4,8'a-dimethyldispiro[3-cyclohexene-1,1'(2'H)-naphthalene-6'(5'H),2''-[1,3]dioxolan]-2'-yl)methyl ester, (1'α,2'α,4'aβ,8'a.βeta.)- (9CI) (CA INDEX NAME)



IT 61570-25-0P 61616-09-9P 71749-30-9P

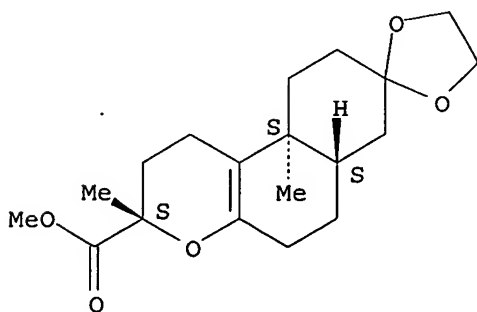
71773-04-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and reduction of)

RN 61570-25-0 HCAPLUS

CN Spiro[1,3-dioxolane-2,8'(6'H)-[1H]naphtho[2,1-b]pyran]-3'-carboxylic acid, 2',3',5',6'a,7',9',10',10'a-octahydro-3',10'a-dimethyl-, methyl ester, (3'α,6'aβ,10'aα)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



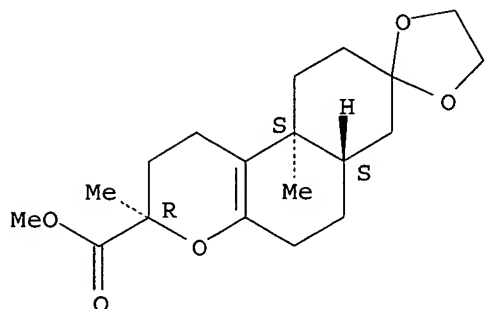
RN 61616-09-9 HCAPLUS

CN Spiro[1,3-dioxolane-2,8'(6'H)-[1H]naphtho[2,1-b]pyran]-3'-carboxylic acid,

Sackey 10_682530

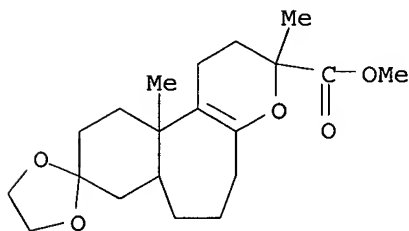
2',3',5',6'a,7',9',10',10'a-octahydro-3',10'a-dimethyl-, methyl ester,
(3'α,6'aα,10'aβ) - (9CI) (CA INDEX NAME)

Relative stereochemistry.



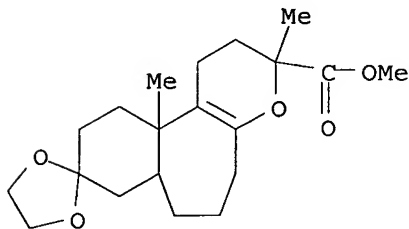
RN 71749-30-9 HCAPLUS

CN Spiro[benzo[3,4]cyclohepta[1,2-b]pyran-9(1H),2'-[1,3]dioxolane]-3-
carboxylic acid, 2,3,5,6,7,7a,8,10,11,11a-decahydro-3,11a-dimethyl-,
methyl ester, (3α,7aα,11aα) - (9CI) (CA INDEX NAME)



RN 71773-04-1 HCAPLUS

CN Spiro[benzo[3,4]cyclohepta[1,2-b]pyran-9(1H),2'-[1,3]dioxolane]-3-
carboxylic acid, 2,3,5,6,7,7a,8,10,11,11a-decahydro-3,11a-dimethyl-,
methyl ester, (3α,7aβ,11aβ) - (9CI) (CA INDEX NAME)



L47 ANSWER 27 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1975:410102 HCAPLUS
DOCUMENT NUMBER: 83:10102
TITLE: Bicyclic lactam compounds
INVENTOR(S): Lattrell, Rudolf; Lohaus, Gerhard
PATENT ASSIGNEE(S): Farbwerke Hoechst A.-G.
SOURCE: Ger. Offen., 52 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent

LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2325770	A1	19741219	DE 1973-2325770	19730521 <--
PRIORITY APPLN. INFO.:			DE 1973-2325770	A 19730521

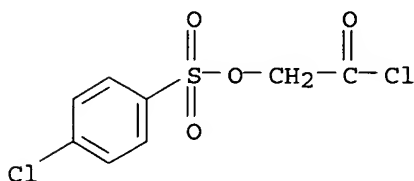
GI For diagram(s), see printed CA Issue.

AB Isomeric cephem derivs: I, II, and III (R = Me, Ph, AcOCH₂, EtSCH₂CH₂, CH₂:CH, PhCH₂; R₁ = Me, Ph; R₂ = phthalimido, 4-ClC₆H₄SO₂O, N₃, PhCH₂CONH) were prepared by cyclodehydration of azetidinones IV with Al or Ti tert-butyrate in Me₃COH or xylene. (Me₃CO)₃TiCl, Bu₃SnNEt₂, TiCl₄, MeCaI, AlCl₃, and BEt₃-diethylboryl pivalate in PhMe and THF were also used. The ratio I-II formed depends on the catalyst and the solvent. II isomerizes to III readily in polar aprotic solvents, whereas this is prevented by the use of tert-alcoholates of Al or Ti. Cis isomers of I show antibacterial activity and the trans isomers are intermediates for pharmaceuticals.

IT 51523-91-2
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (cyclization with propenyl thioformimide derivative)

RN 51523-91-2 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 2-chloro-2-oxoethyl ester (9CI) (CA INDEX NAME)

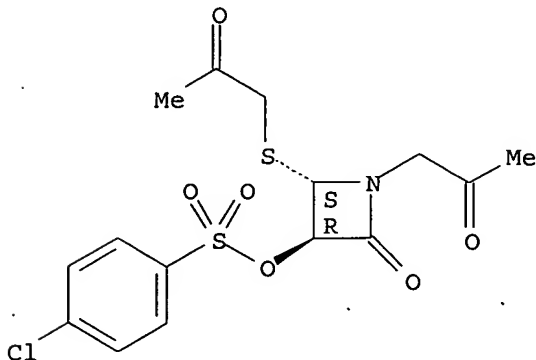


IT 37485-77-1
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (cyclodehydration of)

RN 37485-77-1 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 2-oxo-1-(2-oxopropyl)-4-[(2-oxopropyl)thio]-3-azetidinyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



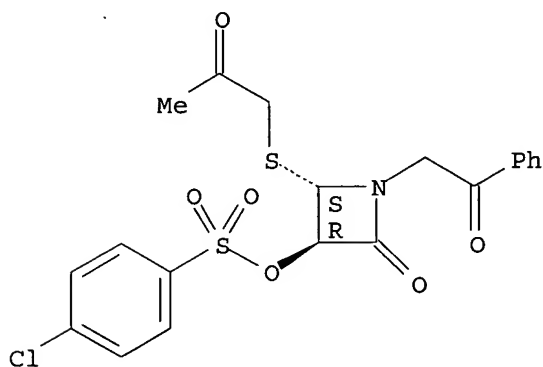
IT 54150-88-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and ketalization and azide exchange)

RN 54150-88-8 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 2-oxo-1-(2-oxo-2-phenylethyl)-4-[(2-oxopropyl)thio]-3-azetidinyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



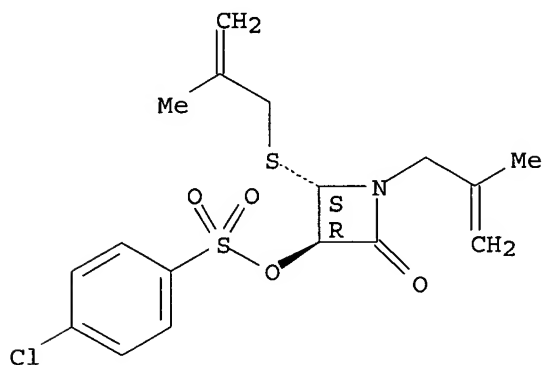
IT 37485-40-8P 54150-17-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and oxidation with ozone)

RN 37485-40-8 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 1-(2-methyl-2-propenyl)-2-[(2-methyl-2-propenyl)thio]-4-oxo-3-azetidinyl ester, trans- (9CI) (CA INDEX NAME)

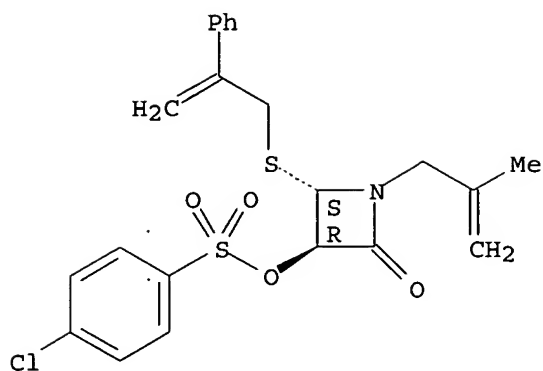
Relative stereochemistry.



RN 54150-17-3 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 1-(2-methyl-2-propenyl)-2-oxo-4-[(2-phenyl-2-propenyl)thio]-3-azetidinyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



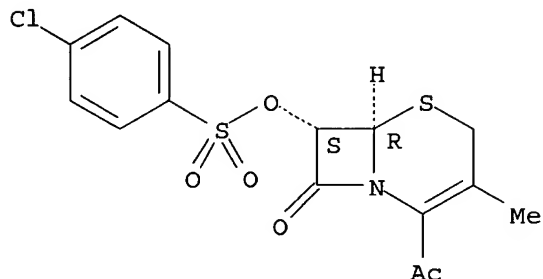
IT 55435-84-2P 55435-85-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 55435-84-2 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 2-acetyl-3-methyl-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-7-yl ester, cis- (9CI) (CA INDEX NAME)

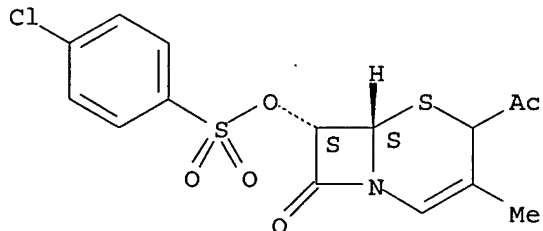
Relative stereochemistry.



RN 55435-85-3 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 4-acetyl-3-methyl-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-7-yl ester, (6α,7β)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



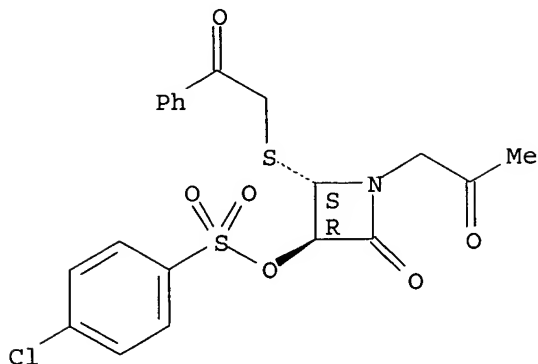
IT 54150-87-7P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation, ketalization, and azido exchange)

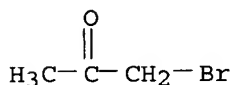
RN 54150-87-7 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 2-oxo-4-[(2-oxo-2-phenylethyl)thio]-1-(2-oxopropyl)-3-azetidiny ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



IT 598-31-2
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, with diazathiabicycloheptene)
 RN 598-31-2 HCAPLUS
 CN 2-Propanone, 1-bromo- (8CI, 9CI) (CA INDEX NAME)



L47 ANSWER 28 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1975:4070 HCAPLUS

DOCUMENT NUMBER: 82:4070

TITLE: 4-Mercapto-2-azetidinones. II. Synthesis and reactions of 4-mercapto-2-azetidinones

AUTHOR(S): Lattrell, Rudolf

CORPORATE SOURCE: Hoechst A.-G., Frankfurt/Main, Fed. Rep. Ger.

SOURCE: Justus Liebigs Annalen der Chemie (1974), (9), 1361-90

CODEN: JLACBF; ISSN: 0075-4617

DOCUMENT TYPE: Journal

LANGUAGE: German

GI For diagram(s), see printed CA Issue.

AB Reaction of the azetidines I [X = S; R = CPh₃; R₁ = e.g. CH₂COMe, CH₂CMe(OMe)₂, CH₂CO₂Me, C(:CMe₂)CO₂Me, or CH:CPh₂; R₂ = N₃, OAc, phthalimido, NHCOCH₂Ph, O₃SC₆H₄Cl-4, or O₃SC₆H₄Me-4] with AgNO₃, AcOHgCO₂Me, and (AcO)₂Hg gave I [X = S, R = Ag] (II), I [X = S, R = HgCO₂Me] (III) and the Hg derivs. IV, resp. Treatment of II, III, and IV with H₂S gave I (X = S, R = H) (V) as cis and trans isomers. Alkylation of V gave I (X = S; R = CH₂COMe, CH₂CO₂Me, CH₂COCH₂Ph, CH₂COCH₂OAc, CH₂COCH:CH₂, CH₂C(:CH₂)CO₂CMe₃, CH₂CMe:CH₂, or CH₂COCH₂SEt) which were also prepared by direct alkylation of II, III, or IV. The reaction of V with ClCH₂COCH:CH₂ and with 2,3-dihydropyran gave no alkylation products but the addition products I (X = S, R = CH₂CH₂COCH₂Cl or 2-tetrahydropyranyl, resp.). The solvolysis of III and IV with excess (AcO)₂Hg in MeOH and HOAc, resp., gave I (X = O, R = Me or Ac, resp.). V [R₁ = C(:CMe₂)CO₂Me were investigated regarding their possible occurrence in penicillin chemical

IT 51523-93-4P 51523-95-6P 51524-07-3P
 51585-55-8P 54487-28-4P 54487-34-2P

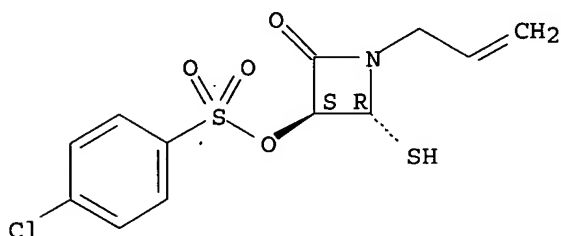
54487-35-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); RACT (Reactant or reagent)
(preparation and reaction with hydrogen sulfide)

RN 51523-93-4 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 2-mercapto-4-oxo-1-(2-propenyl)-3-
azetidiny ester, mercury(2+) salt, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

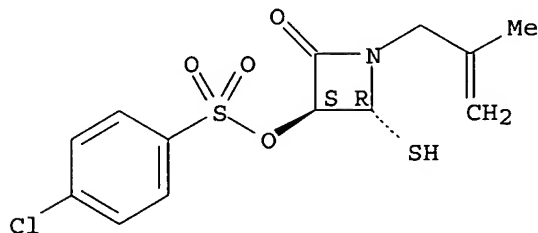


● 1/2 Hg(II)

RN 51523-95-6 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 2-mercapto-1-(2-methyl-2-propenyl)-4-oxo-
3-azetidiny ester, mercury(2+) salt, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

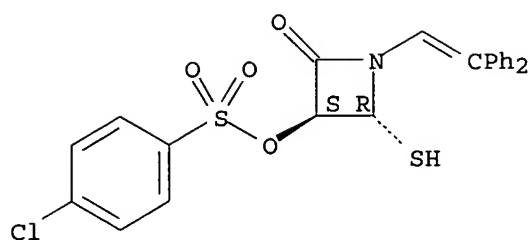


● 1/2 Hg(II)

RN 51524-07-3 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 1-(2,2-diphenylethenyl)-2-mercapto-4-oxo-
3-azetidiny ester, mercury(2+) salt, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

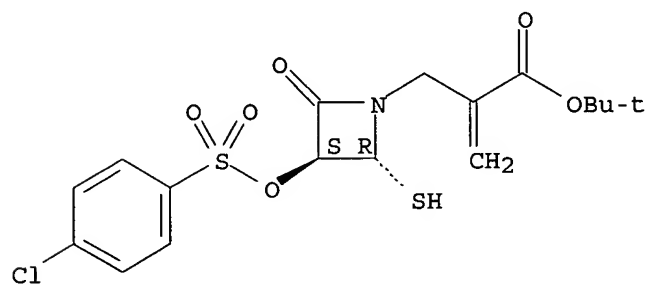


●1/2 Hg(II)

RN 51585-55-8 HCAPLUS

CN 1-Azetidinepropanoic acid, 3-[[[4-chlorophenyl)sulfonyl]oxy]-2-mercapto-
α-methylene-4-oxo-, 1,1-dimethylethyl ester, mercury(2+) salt,
trans- (9CI) (CA INDEX NAME)

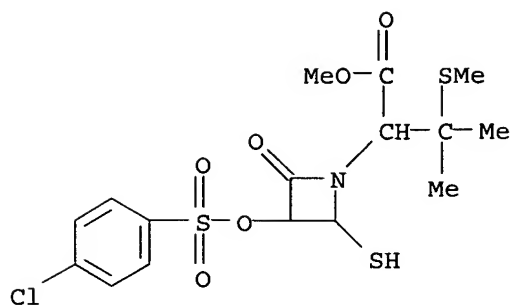
Relative stereochemistry.



●1/2 Hg(II)

RN 54487-28-4 HCAPLUS

CN 1-Azetidineacetic acid, 3-[[[4-chlorophenyl)sulfonyl]oxy]-2-mercapto-
α-[1-methyl-1-(methylthio)ethyl]-4-oxo-, methyl ester, mercury(2+)
salt (2:1) (9CI) (CA INDEX NAME)

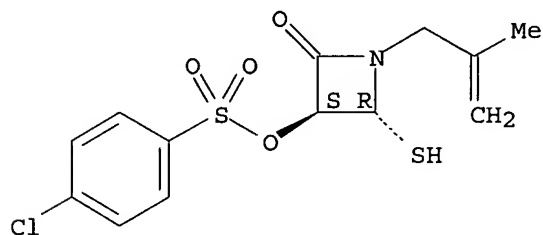


● 1/2 Hg(II)

RN 54487-34-2 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 2-mercapto-1-(2-methyl-2-propenyl)-4-oxo-3-azetidiny ester, silver(1+) salt, trans- (9CI) (CA INDEX NAME)

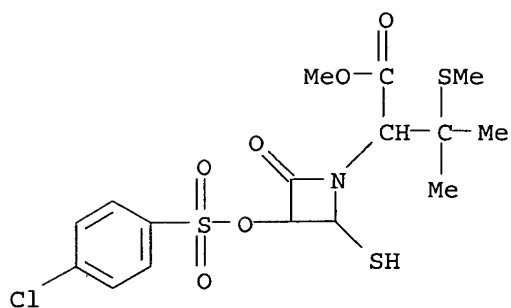
Relative stereochemistry.



● Ag(I)

RN 54487-35-3 HCAPLUS

CN 1-Azetidineacetic acid, 4-[[[(4-chlorophenyl)sulfonyl]oxyl]-2-mercapto-α-[1-methyl-1-(methylthio)ethyl]-4-oxo-, methyl ester, silver(1+) salt (9CI) (CA INDEX NAME)



● Ag(I)

IT 51523-94-5P 51524-08-4P 51750-42-6P

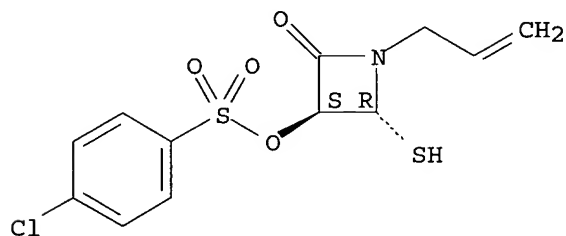
51887-15-1P 54487-31-9P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 51523-94-5 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 2-mercapto-4-oxo-1-(2-propenyl)-3-azetidinyl ester, trans- (9CI) (CA INDEX NAME)

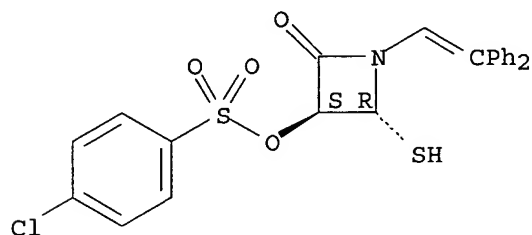
Relative stereochemistry.



RN 51524-08-4 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 1-(2,2-diphenylethenyl)-2-mercapto-4-oxo-3-azetidinyl ester, trans- (9CI) (CA INDEX NAME)

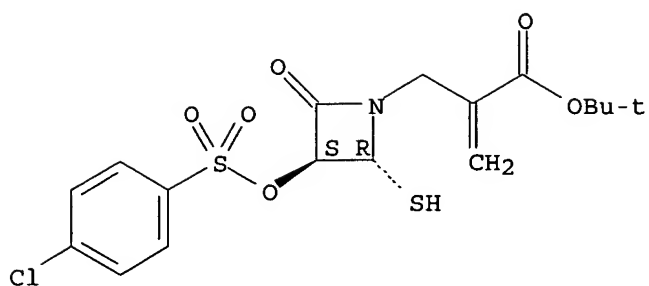
Relative stereochemistry.



RN 51750-42-6 HCAPLUS

CN 1-Azetidinepropanoic acid, 3-[[[(4-chlorophenyl)sulfonyl]oxy]-2-mercapto-α-methylene-4-oxo-, 1,1-dimethylethyl ester, trans- (9CI) (CA INDEX NAME)

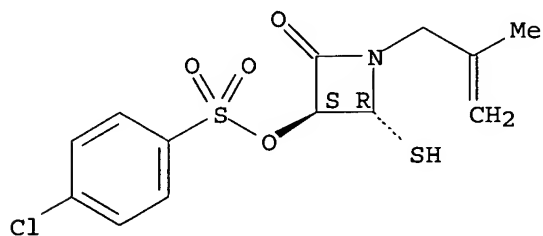
Relative stereochemistry.



RN 51887-15-1 HCAPLUS

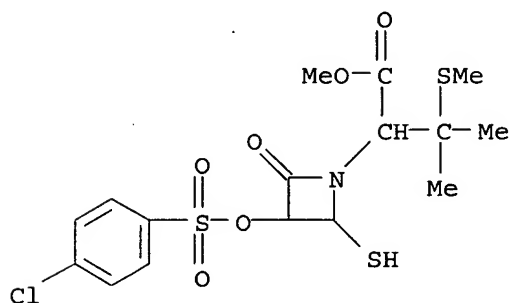
CN Benzenesulfonic acid, 4-chloro-, 2-mercapto-1-(2-methyl-2-propenyl)-4-oxo-3-azetidinyloxy ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 54487-31-9 HCAPLUS

CN 1-Azetidineacetic acid, 3-[[[(4-chlorophenyl)sulfonyl]oxy]-2-mercapto-α-[1-methyl-1-(methylthio)ethyl]-4-oxo-, methyl ester (9CI) (CA INDEX NAME)

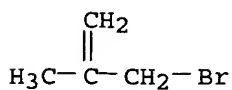


IT 1458-98-6

RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with mercaptoazetidinone)

RN 1458-98-6 HCAPLUS

CN 1-Propene, 3-bromo-2-methyl- (9CI) (CA INDEX NAME)



IT 37485-54-4 51523-92-3 51523-99-0

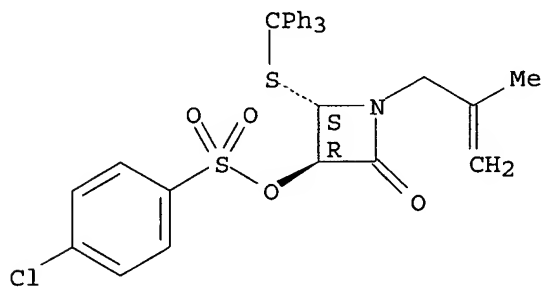
51524-02-8 51524-06-2

RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with mercury salts)

RN 37485-54-4 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 1-(2-methyl-2-propenyl)-2-oxo-4-
[(triphenylmethyl)thio]-3-azetidiny ester, trans- (9CI) (CA INDEX NAME)

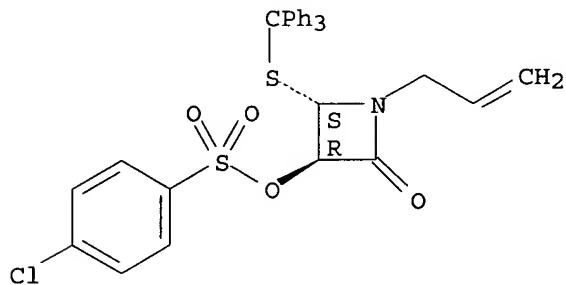
Relative stereochemistry.



RN 51523-92-3 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 2-oxo-1-(2-propenyl)-4-
[(triphenylmethyl)thio]-3-azetidiny ester, trans- (9CI) (CA INDEX NAME)

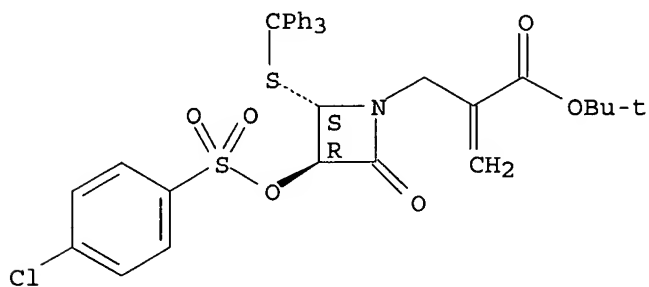
Relative stereochemistry.



RN 51523-99-0 HCAPLUS

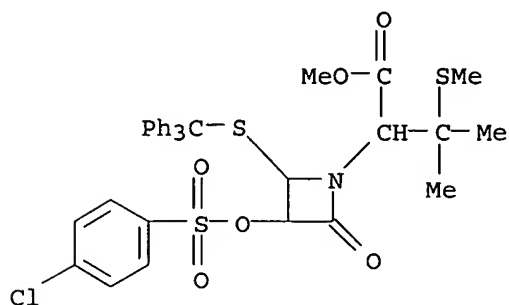
CN 1-Azetidinepropanoic acid, 3-[[[4-chlorophenyl)sulfonyl]oxy]- α -
methylene-2-oxo-4-[(triphenylmethyl)thio]-, 1,1-dimethylethyl ester,
trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 51524-02-8 HCAPLUS

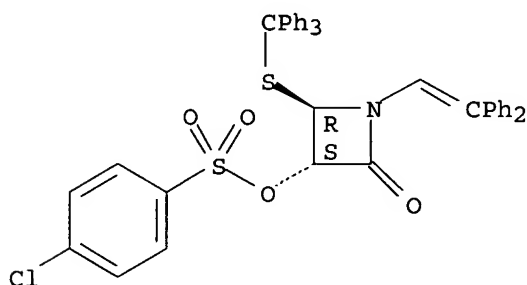
CN 1-Azetidineacetic acid, 3-[[[(4-chlorophenyl)sulfonyl]oxy]- α -[1-methyl-1-(methylthio)ethyl]-2-oxo-4-[(triphenylmethyl)thio]-, methyl ester, trans- (9CI) (CA INDEX NAME).



RN 51524-06-2 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 1-(2,2-diphenylethenyl)-2-oxo-4-[(triphenylmethyl)thio]-3-azetidiny ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L47 ANSWER 29 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1974:451140 HCAPLUS

DOCUMENT NUMBER: 81:51140

TITLE: Sulfonium salts as dye intermediates

INVENTOR(S): Rempfler, Hermann; Bosshard, Hans; Weber, Kurt

PATENT ASSIGNEE(S): Ciba-Geigy A.-G.

SOURCE: Ger. Offen., 39 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

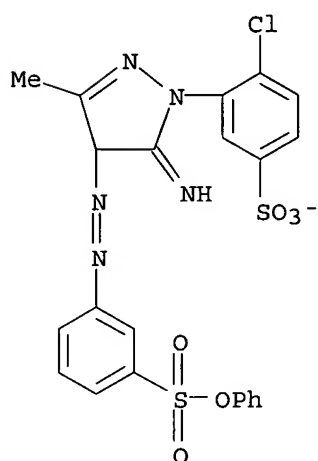
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

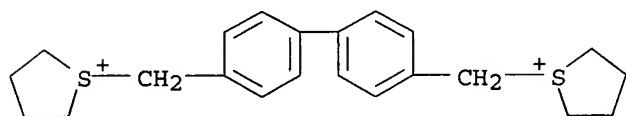
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2332709	A1	19740110	DE 1973-2332709	19730627 <--
PRIORITY APPLN. INFO.:			CH 1972-9851	A 19720630

AB Sulfonium salts, used as intermediates for water-insol. salts of anionic dyes, were prepared by reaction of organic halides, alcs., or esters with sulfides. Thus, reaction of (4-ClCH₂C₆H₄)₂ with tetrahydrothiophene in 37% aqueous HCl 4 hr at 65.deg. gave 1,1'-(4,4'-biphenylylenedimethylene)bis(tetrahydrothiophenium) dichloride (I) [51382-87-7]. Similarly prepared were 33 other sulfonium salts. I was added to II in H₂O to give dye (III) [

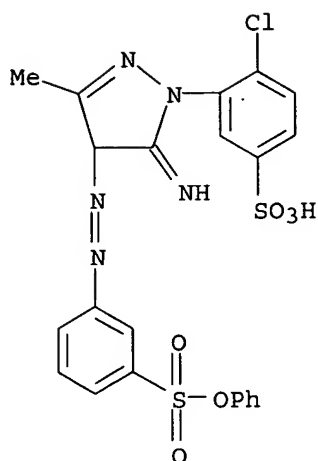
IT 51382-86-6], uniform yellow on polyamide 66 fibers.
 51382-86-6P
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (preparation of)
 RN 51382-86-6 HCAPLUS
 CN Thiophenium, 1,1'-[[1,1'-biphenyl]-4,4'-diylbis(methylene)]bis[tetrahydro-
 , salt with 4-chloro-3-[4,5-dihydro-5-imino-3-methyl-4-[[3-
 (phenoxy sulfonyl)phenyl]azo]-1H-pyrazol-1-yl]benzenesulfonic acid (1:2)
 (9CI) (CA INDEX NAME)
 CM 1
 CRN 51382-85-5
 CMF C22 H17 Cl N5 O6 S2



CM 2
 CRN 51382-84-4
 CMF C22 H28 S2

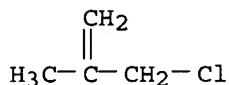


IT 52761-33-8
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, with (biphenylylenedimethylene)bis(tetrahydrothiophenium)
 dichloride)
 RN 52761-33-8 HCAPLUS
 CN Benzenesulfonic acid, 4-chloro-3-[4,5-dihydro-5-imino-3-methyl-4-[[3-
 (phenoxy sulfonyl)phenyl]azo]-1H-pyrazol-1-yl]-, monosodium salt (9CI) (CA
 INDEX NAME)



● Na

IT 563-47-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, with tetrahydrothiophene)
 RN 563-47-3 HCAPLUS
 CN 1-Propene, 3-chloro-2-methyl- (9CI) (CA INDEX NAME)

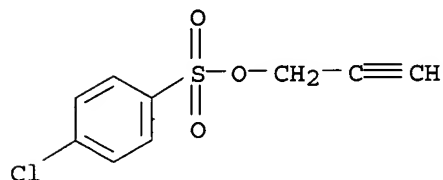


L47 ANSWER 30 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1973:57942 HCAPLUS
 DOCUMENT NUMBER: 78:57942
 TITLE: Reaction of acetol esters of arenesulfonic acids with substituted phenols
 AUTHOR(S): Prib, O. A.; Yasinskii, I. M.
 CORPORATE SOURCE: Karagand. Med. Inst., Karaganda, USSR
 SOURCE: Zhurnal Organicheskoi Khimii (1971), 7(2), 348-50
 CODEN: ZORKAE; ISSN: 0514-7492
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 AB 4- $\text{XC}_6\text{H}_4\text{SO}_3\text{CH}_2\text{COME}$ (X = H, Cl, Me) (prepared in 65-79% yield by hydrating 4- $\text{XC}_6\text{H}_4\text{SO}_3\text{CH}_2\text{C.tplbond.CH}$ in aqueous MeOH containing $\text{H}_2\text{SO}_4\text{-HgSO}_4$) reacted with ROH
 (R = 2- and 4- BrC_6H_4 , 2- and 4- $\text{O}_2\text{NC}_6\text{H}_4$) in Me_2CO containing K_2CO_3 at room temperature to give 82.1-92.3% ROCH_2COME . 2,6- $\text{Br}_2\text{C}_6\text{H}_3\text{OH}$ and 2,4- $\text{Cl}_2\text{C}_6\text{H}_3\text{OH}$ gave the resp. acetol ethers in 53.6 and 58.0% yield, and [5,2- $\text{Cl}(\text{HO})\text{C}_6\text{H}_3$] $_2\text{CH}_2$ afforded the mono- and diethers in 90.1 and 91.2% yield, resp. All of the above products except the dibromophenyl and dichlorophenyl ethers formed semicarbazones in 62-92.0% yield.
 IT 6165-77-1
 RL: RCT (Reactant); RACT (Reactant or reagent)

(hydration of)

RN 6165-77-1 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 2-propynyl ester (9CI) (CA INDEX NAME)

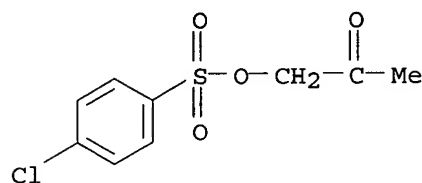


IT 1666-18-8 1666-19-9 1666-20-2

RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction with phenols)

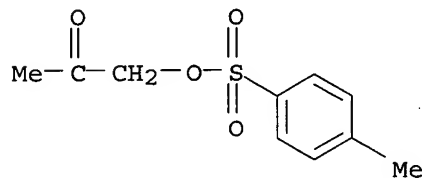
RN 1666-18-8 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 2-oxopropyl ester (9CI) (CA INDEX NAME)



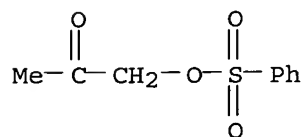
RN 1666-19-9 HCAPLUS

CN 2-Propanone, 1-[[4-methylphenyl)sulfonyl]oxy]- (9CI) (CA INDEX NAME)



RN 1666-20-2 HCAPLUS

CN 2-Propanone, 1-[(phenylsulfonyl)oxy]- (9CI) (CA INDEX NAME)



L47 ANSWER 31 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1971:124637 HCAPLUS

DOCUMENT NUMBER: 74:124637

TITLE: Reactions of unsaturated esters of aromatic sulfonic acids. XV. Solvolysis of 2-methylallyl and

2-methylpropyl esters of substituted benzenesulfonic acid in pure alcohols

AUTHOR(S): Sendega, R. V.; Mikhalevich, M. K.; Vizgert, R. V.

CORPORATE SOURCE: Dep. Gen. Inorg. Chem., Lvov. Polytech. Inst., Lvov, USSR

SOURCE: Reaktsionnaya Sposobnost Organicheskikh Soedinenii (1970), 7(3), 636-57
CODEN: RSOTAY; ISSN: 0375-9520

DOCUMENT TYPE: Journal

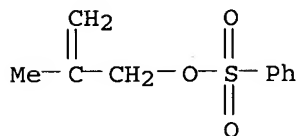
LANGUAGE: Russian

AB The kinetics of the solvolysis of 2-methylallyl and 2-methylpropyl esters of substituted benzenesulfonic acid in alcs. ROH (R = Me, Et, n-Pr, n-Bu, iso-Pr, and tert-Bu) was studied at 50, 60, and 70°, and the corresponding activation parameters were calculated. Introduction of a Me group into the β-position of a propyl group decreased the solvolysis rate. The magnitude of the substituent effect depended on the magnitude of the pos. charge on the C atom at the reaction center; the less charge the greater the substituent effect. Linear relations of the rate consts. with inductive and steric consts. of the R substituents in the alcs. was observed; the steric effects of R were slight.

IT 20443-63-4P 32317-63-8P
RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

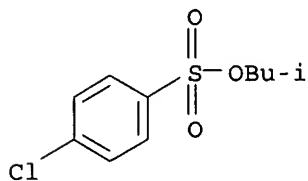
RN 20443-63-4 HCAPLUS

CN 2-Propen-1-ol, 2-methyl-, benzenesulfonate (7CI, 8CI, 9CI) (CA INDEX NAME)



RN 32317-63-8 HCAPLUS

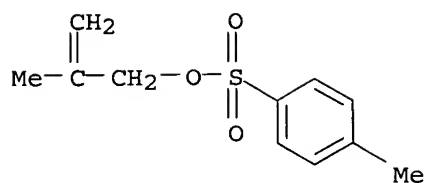
CN Benzenesulfonic acid, 4-chloro-, 2-methylpropyl ester (9CI) (CA INDEX NAME)



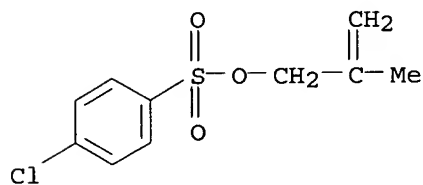
IT 20443-62-3 20443-64-5 20443-65-6
32317-56-9 32317-58-1 32317-59-2
RL: RCT (Reactant); RACT (Reactant or reagent) (solvolysis of, in alcs.)

RN 20443-62-3 HCAPLUS

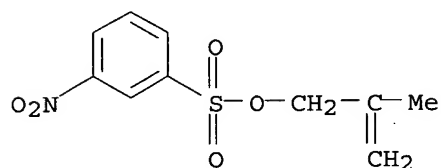
CN 2-Propen-1-ol, 2-methyl-, 4-methylbenzenesulfonate (9CI) (CA INDEX NAME)



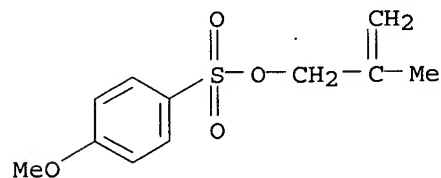
RN 20443-64-5 HCAPLUS
 CN Benzenesulfonic acid, 4-chloro-, 2-methyl-2-propenyl ester (9CI) (CA INDEX NAME)



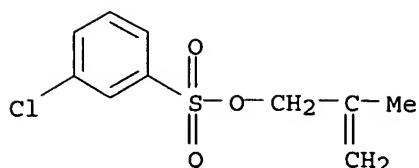
RN 20443-65-6 HCAPLUS
 CN Benzenesulfonic acid, 3-nitro-, 2-methyl-2-propenyl ester (9CI) (CA INDEX NAME)



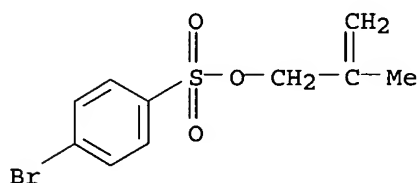
RN 32317-56-9 HCAPLUS
 CN Benzenesulfonic acid, 4-methoxy-, 2-methyl-2-propenyl ester (9CI) (CA INDEX NAME)



RN 32317-58-1 HCAPLUS
 CN Benzenesulfonic acid, 3-chloro-, 2-methyl-2-propenyl ester (9CI) (CA INDEX NAME)



RN 32317-59-2 HCAPLUS
 CN Benzenesulfonic acid, 4-bromo-, 2-methyl-2-propenyl ester (9CI) (CA INDEX NAME)



L47 ANSWER 32 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STM
 ACCESSION NUMBER: 1968:476101 HCAPLUS
 DOCUMENT NUMBER: 69:76101
 TITLE: Kinetics of the uncatalyzed and alkaline hydrolysis of unsaturated esters of aromatic sulfonic acids
 AUTHOR(S): Vizgert, R. V.; Sendega, R. V.
 CORPORATE SOURCE: L'vov. Politekh. Inst., Lvov, USSR
 SOURCE: Reaktsionnaya Sposobnost Organicheskikh Soedinenii (1968), 5(1), 111-26
 CODEN: RSOTAY; ISSN: 0375-9520
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 AB Various XC6H4SO3R (I) were prepared by standard methods, the rate consts. of their uncatalyzed hydrolyses in 70% dioxane-water mixts. (k1 in sec.-1) and those of the alkali hydroxide-catalyzed reactions (k2 in l. mole-1 sec.-1) determined, and the energies of activation (E in cal. mole-1), the resp. pre-exponential terms (A), and the entropies of activation [ΔS_{++} in cal.(°K.)-1 mole-1] calculated. The prepared I were characterized as tabulated. [TABLE OMITTED] The rate consts. were determined spectrophotometrically, conductometrically, and titrimetrically (the spectrophotometric method was the most appropriate). The results are as follows (I, k1 + 105 at 30, 40, and 50°, E, log A, and - ΔS_{++} values for the uncatalyzed reaction, k2 + 103 at 30, 40, and 50°, and E, log A, and - ΔS_{++} values for the alkaline hydrolysis given): II, 0.0245, 0.0858, 0.278, 23.6, 10.20, 13.36, 0.362, 0.991, 2.54, 18.0, 9.54, 15.88; III, 0.0501, 0.142, 0.458, 21.5, 9.21, 18.65, 0.673, 1.99, 3.98, 17.3, 9.31, 17.96; IV, 0.106, 0.355, 1.10, 22.7, 10.4, 13.85, 1.595, 3.98, 10.00, 17.8, 10.84, 15.99; V, 0.653, 1.735, 4.33, 18.4, 8.09, 23.53, 7.216, 15.85, 41.69, 17.1, 10.20, 13.91; VI, 1.123, 3.37, 9.40, 20.7, 10.07, 15.68, 1.13, 2.72, 6.55, 17.6, 9.76, 16.05; VII, 2.250, 6.47, 17.17, 19.8, 9.63, 17.55, 1.76, 4.34, 11.06, 17.1, 10.01, 14.74; VIII, 5.62, 15.43, 42.42, 19.6, 10.00, 15.30, 4.60, 10.73, 24.60, 16.9, 9.85, 15.49; IX, 27.23, 67.17, 163.0, 17.0, 8.70, 20.75, 18.94, 44.80, 98.90, 16.0, 9.80, 15.73; X, 1.45, 4.05, 10.60, 19.3, 9.08, 13.82, 1.4730, 4.01, 10.27, 18.9, 10.80, 11.13; XI, 2.49, 7.28, 19.58, 20.1, 9.89, 10.70, 2.369, 5.99, 14.33,

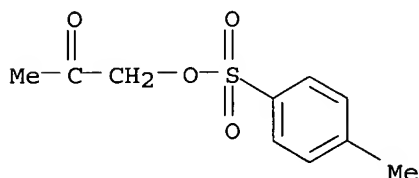
17.5, 10.00, 14.80; XII, 7.82, 20.17, 45.62, 18.0, 8.81, 20.26, 6.317, 15.00, 35.79, 16.3, 9.57, 17.74; XIII, 39.32, 86.67, 182.2, 14.9, 7.34, 26.95, 27.79, 62.80, 134.8, 15.4, 9.54, 16.90; XIV, 13.22 (at 0°), 143.5 (at 20°), -, 18.9, 9.76, 15.91, high, high, high, -, -, -; XV, 28.83 (at 0°), 240 (at 20°), -, 16.8, 8.59, 23.38, high, high, high, -, -, -; XVI, 8.63, 23.12, 46.2, 16.3, 7.70, 20.76, high, high, high, -, -, -; XVII, low, low, low, -, -, -, 2.800, 5.105, 8.09, 10.31, 4.89, 38.24; XVIII, -, -, -, -, -, -, 1.815 (at 70°), -, 0.291, 20.0, 10.10, 14.93; XIX, -, -, -, -, -, -, 3.210 (at 70°), -, 0.588, 19.1, 9.65, 14.38; XX, -, -, -, -, -, -, 0.210, -, 1.445, 18.8, 9.88, 15.46; and XXI, -, -, -, -, -, -, 0.833, -, 3.450, 18.3, 10.10, 15.28. The σ_0 correlation terms for the I reaction series at 30° were evaluated with the following results (R, -log k_0 , and ρ_0 for the uncatalyzed hydrolyses, and -log k_0 and ρ_0 for the catalyzed reactions given): CH₂C.tplbond.CH, 6.30, 1.69, 3.18, 1.53; CH₂CH:CH₂, 4.65, 1.68, 2.74, 1.46; and CH₂CMe:CH₂, 4.62, 1.62, 2.60, 1.49. The uncatalyzed hydrolyses are discussed in terms of a 2-step mechanism (the slow 1st step involves the formation of a carbonium ion by splitting the C-O bond).

IT 1666-19-9 6165-74-8 6165-77-1
20443-62-3 20443-63-4 20443-64-5
20443-65-6 20443-71-4

RL: PEP (Physical, engineering or chemical process); PRP (Properties);
RCT (Reactant); PROC (Process); RACT (Reactant or reagent)
(hydrolysis of, kinetics of)

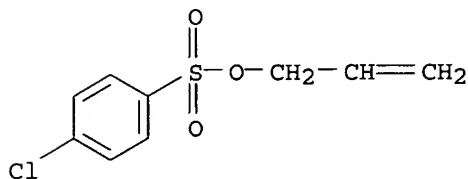
RN 1666-19-9 HCAPLUS

CN 2-Propanone, 1-[[[4-methylphenyl)sulfonyl]oxy]- (9CI) (CA INDEX NAME)



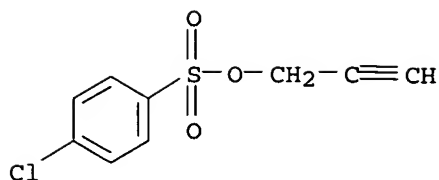
RN 6165-74-8 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 2-propenyl ester (9CI) (CA INDEX NAME)

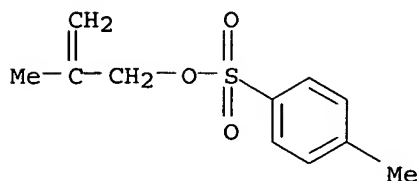


RN 6165-77-1 HCAPLUS

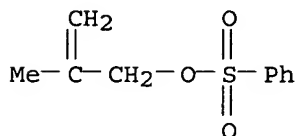
CN Benzenesulfonic acid, 4-chloro-, 2-propynyl ester (9CI) (CA INDEX NAME)



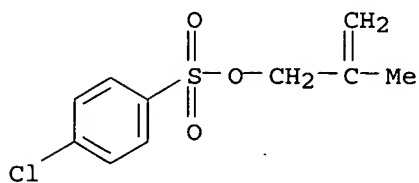
RN 20443-62-3 HCAPLUS
 CN 2-Propen-1-ol, 2-methyl-, 4-methylbenzenesulfonate (9CI) (CA INDEX NAME)



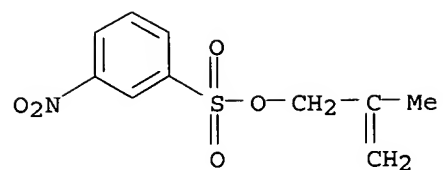
RN 20443-63-4 HCAPLUS
 CN 2-Propen-1-ol, 2-methyl-, benzenesulfonate (7CI, 8CI, 9CI) (CA INDEX NAME)



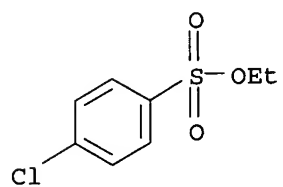
RN 20443-64-5 HCAPLUS
 CN Benzenesulfonic acid, 4-chloro-, 2-methyl-2-propenyl ester (9CI) (CA INDEX NAME)



RN 20443-65-6 HCAPLUS
 CN Benzenesulfonic acid, 3-nitro-, 2-methyl-2-propenyl ester (9CI) (CA INDEX NAME)



RN 20443-71-4 HCAPLUS
CN Benzenesulfonic acid, 4-chloro-, ethyl ester (9CI) (CA INDEX NAME)



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